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Index of Mosses 1996-1998

Missouri
Botanical
Garden

Index of Mosses 1996–1998

Index of Mosses

Index of Mosses

a catalog of the names and citations for new taxa, combinations, and names for mosses published during the years 1996 through 1998, inclusive, with citations of previously published basionyms and replaced names together with a bibliography of the publications in which these nova appeared

Marshall R. Crosby

Missouri Botanical Garden

MISSOURI BOTANICAL
SEP 0 6 2000
GARDEN LIBRARY

MONOGRAPHS IN SYSTEMATIC BOTANY FROM THE MISSOURI BOTANICAL GARDEN

Volume 80

ISBN 0-915279-10-X
ISSN 0161-1542

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St. Louis, Missouri 63166-0299

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Introduction

The *Index of Mosses, 1996–1998 (IOM 96–98)*, contains 513 nova published between 1 January 1996 and 31 December 1998. In addition, nova that should have appeared in earlier *Indexes of Mosses* and valid nova that should have appeared in *Index Muscorum* (*IM*) are included. Finally, there are some corrections to the earlier *Indexes of Mosses* and *Index Muscorum*. The total number of entries in *IOM 96–98* is 998.

IOM 96–98 follows the style of the *Index of Mosses, 1963–1989,* which appeared in 1992, *Index of Mosses, 1990–1992* (1994), and *Index of Mosses 1993–1995* (1997). Users should read their introductions for details about content and format.

IOM 96–98 lists authors of moss names and publications not listed in *Index of Mosses, 1963–1989*, with a few entries duplicated, when additional information is available.

As with earlier *Indexes of Mosses*, *IOM 96–98* is based on information contained in MOST, a subset of the database TROPICOS, developed and maintained at the Missouri Botanical Garden. *Index of Mosses* is a nomenclator: it does not reflect taxonomic interpretations of acceptance or synonymy. Nomenclatural interpretations are based on the *St. Louis Code*.

IOM 93–95 was rich in nova in the largest family of mosses, Pottiaceae. The resurrected *Leptotrichella* and *Schistidium* take honors for most nova this time, with 62 and 71 entries, respectively. Although we continue to recombine names, there seems to be a downward trend in the number of species of mosses being described. Here are the numbers of species with valid, legitimate names cataloged in this *Index* and its two predecessors: 1990–92, 132; 1993–95, 116; 1996–98, 102; for a total of 350.

The broader literature indicates that 15 of these, just over 4%, have already fallen into taxonomic synonymy.

Willem (Wim) Margadant, the last surviving compiler of *Index Muscorum*, died during the period covered by this installment of *IOM*. Shortly before his death, he completed an essay sketching the creation of this monumental muscological work. His fellow Dutchman Willem (Bill) Meijer brought me a copy of the essay, suggesting that it be published in the next *IOM*. The essay, lightly edited, follows this preface.

IM is a remarkable achievement. Based on the data in TROPICOS, about 80,500 names, exclusive of forms and subforms, existed to be cataloged by the end of 1962, the closing date for *IM*. Its compilers "checked about 90% of the names," and only "about 10% of the entries [as published in *IM*] had a minor or major mistake."

Although "IM is outdated now," it is only out-of-date in the sense of no longer being up-to-date, and it remains a fundamental reference for muscology. It stimulated the "rather strong output of taxonomic literature" that has appeared since volume one of *IM* was published in 1959. This output has resulted in a further increase in the number of names to catalog, to about 87,500 now. More importantly, it has resulted in a much better understanding of the relationships and diversity of mosses. *IM* reflected a taxonomy that recognized just over 17,000 species of mosses. In this interim, based on the "rather strong output of taxonomic literature," the number has been reduced to just under 13,000 and appears to be headed for a final count of about 12,000 species (Crosby, in prep.).

IM is probably the last index of mosses that will be compiled "by preparing cards." Although *IOM* began by the entering of data on cards, they were immediately computerized: the data were punched into IBM cards, each card representing one field of one record, with as many as twenty cards representing one record (name). This system was abandoned in the early 1980s with the introduction of the Osborne 01 "portable" computer. And, we may be reaching the point that paper index of mosses will no longer

be produced. The entire database on which *IOM* is based is available on the web at http://www.mobot.org/mobot/tropicos/most and steadily becomes more easily available to all, more easily manipulated for individual needs, and richer in content (digital images of protologues are now being attached to their citations, see, e.g., *Brachymenium argenteum*, *Funaria delicatula*).

Acknowledgments: I thank my muscological colleagues at MO, Bruce Allen, Steve Churchill, Si He, Bob Ireland, and Jesús Muñoz (now at MA), for help with the *Index of Mosses, 1996–1998*; Bob Magill continues to refine the TROPICOS programs to make data entry, maintenance, and use easier, more accurate, and more useful. Others have helped by sending reprints, commenting on drafts of *IOM 96–98*, and pointing out errors in previous *Indexes* and in TROPICOS. I particularly appreciate Barb Mack's formatting and proofreading.

The Index Muscorum and its aftermath

Wim D. Margadant

Already, before World War II, H. N. Dixon stressed the need for updating the "Index Bryologicus" by E. G. Paris, which appeared in two editions from 1893 to 1905. In the second edition all names known to the author as being published before 1900 were listed, including manuscript names in herbaria or exsiccatae.

A definite plan to produce an updated Index Muscorum was placed before the International Botanical Congress, Paris 1954, by Prof. R. van der Wijk and P. Florschütz. It was discussed by an international committee of bryologists there and recommended. The plan was approved; the committee agreed on guidelines.

The main aim of the Index Muscorum (IM) is to cite names and places of their publication correctly by direct consultation of the works involved. My guess is that we checked about 90% of the names. Rather late during the work I suggested marking those names not checked in the original publication. However, at that time Prof. Van der Wijk, the chief editor, did not want to do so, judging it might jeopardize the finishing of the whole work.

To enable herbarium owners to rearrange the Musci in their collections, IM was to include heterotypic synonyms, as Paris had done. An innovation was the citation of the author responsible for the taxonomical judgement in each particular case. The taxonomy used was in the first place the treatment of Brotherus (and Paul for *Sphagnum*) in ed. 2 of Engler & Prantl, Die natürlichen Pflanzenfamilien, vol. 10–11, 1924–1925; later treatments, especially monographs, should be included. Soon it became apparent that the references to new determinations could not be restricted in this manner; many references to older names had to be searched in the literature of the 19th century. This feature was heavily criticized in reviews, especially when it concerned early determinations. One of the reviewers wrote me that he later realized the usefulness of these references.

Optimistically it was hoped to have the work ready at the next Congress. It soon was clear that much more time was needed. From 1 September 1956 to 31 December 1961, I was able to devote full time to the project. My salary was paid out of a grant of the Dutch Organization for Pure Scientific Research (ZWO, Zuiver Wetenschappelijk Onderzoek). The U.S. National Science Foundation gave a grant for clerical assistance and materials, the first time such a grant went to an institute outside the U.S.A.; both grants made it possible to do the work and are gratefully acknowledged.

The pushing power of Prof. Van der Wijk was instrumental in completing the work. Volume 1 (names of genera beginning with A–C) was presented (a few copies only!) at the Montreal Congress, 1959. The energy of Dr. F. A. Stafleu, who saw the work through the press, so that copies could be presented there, should be mentioned, too. Vol. 5, the last one, was presented in a similar way at the Seattle Congress, 1969.

My hope that we would be able to have only about one percent mistakes also was too optimistic. After Vol. 1 was printed I counted them in a number of pages (only those found at that time) and was embarrassed: about 10% of the entries had a minor or major mistake. However, in experiments with living beings a standard error as high as that is not surprising: I feel quite alive. However, I was not content and have since tried to recheck any publication on Musci that came into my hands. A considerable number of errors was corrected in Vol. 5, containing the remaining letters T–Z, and the Appendix, p. 239–922. Alas, some hyper corrections crept in, too.

The closing date of Vol. 5 was changed from 1 Jan. 1958 to 1 Jan. 1963. The additional period became fully the work of Prof. van der Wijk, which took him much time, since some time after his retirement all clerical assistance stopped.

We began the work on IM by preparing cards for all names in Paris, Index Bryologicus, ed. 2, except clear cases of misidentifications and of not effectively published names. This took about one year for the 3 persons involved at that time, Prof. Van der Wijk and his secretary not being able to devote full time. Names accepted by Paris were entered in white cards, synonyms on buff cards. The next step was to excerpt the Musci in the work of Brotherus (*Sphagnum* by Paul) in Engler & Prantl, Die natürlichen Pflanzenfamilien. "New" names from this source had pink cards. Green cards served for names not in these two sources. An attempt was made to cover the period 1901–1925; the pressure of time did not allow us to do this very thoroughly. For the period 1924–1958 we relied heavily on the literature lists in The Bryologist, Revue Bryologique and its successor Revue Bryologique et Lichénologique, Botanical Abstracts and its successor Biological Abstracts.

The checking of the original publications was begun chronologically: those of 1801 checked onwards. Soon this proved to be much too time consuming; Prof. Van der Wijk decided to change to an alphabetical sequence: first all publications in which names of genera beginning with A were checked. This resulted in considerable number of corrections in the early volumes, since the later volumes had many data not yet checked at the time of preparing the text for printing. Books present in Utrecht and not in Gröningen were checked by P. A. Florschütz, who also did proof reading. He once remarked, "If I made few corrections on a certain page, I was nearly asleep." I was able to use Dutch Interlibrary Loan via the Library of the University Gröningen, a valuable service, again gratefully acknowledged. For books not present in the Netherlands two visits were paid to England. In 1959 I spent about three weeks in London and had tremendous help from Ms. Phyllis Edwards, librarian of the Botany Department of the British Museum (Natural History). My guess is that we saw about 90% of the publications needed. Nevertheless, a number of publications remained unchecked or even unknown to us, e.g., some from the Soviet Union. It was also impossible to check exsiccatae and names from these sources were only entered from literature if we had some indication that descriptions were present. This gap has been partially filled by Dr. Geneva Sayre in her fine work (Memoirs New York Botanical Garden 19(1–3), 1959, 1971, 1975).

The card file, at least 78,900 cards (including a number of duplications, e.g., the names of subgenera and sections in the genus as well as in the alphabetical place) is now in my custody. The cards contain useful additional information not present in the printed volumes, especially of the geographic distribution of the taxa published after 1900. This geography was the feature on which most questions were asked, as Prof. Van der Wijk informed me.

Self-evidently in Vol. 1 the Paris Code was followed. For later volumes we tried to introduce consequences of the changes in the Code accepted at the Montreal (1959) and Edinburgh (1964) Congresses, but time did not permit us to do this thoroughly.

The ranks forma and subforma are not reported in IM, since they were considered to be unimportant. Nevertheless, if we knew a name to be illegitimate (the same epithet having been used earlier in the same species for a taxon based on another type), this was indicated. Therefore, relevant notations on these two ranks were entered on cards. However, these ranks were not hunted systematically.

Since the publication I continued to check every muscological book that came into my hands against the printed volumes and found literally thousands of corrections and additions, including formae and subformae. Later Congresses introduced some changes in the Code. In the Leningrad Congress (1975) a rather drastic change was introduced on infrageneric and infraspecific names, creating a new nomenclatural category: those names of which the rank was not designated in the work concerned. They do not have

priority except for blocking the use of the epithet in the same species based on another type. I can use Donk's term "impriorable names" for this category. Rechecking this is a Herculean task, probably not possible for one person.

My work in trying to correct entries in the Index Muscorum resulted in another file of several thousand cards. I hoped to be able to publish them in a Supplement 1963–1973. In the early seventies I allowed Marshall Crosby to photocopy this file for his work. However, in his Index of Mosses 1963–1989, page 1, this information was "only occasionally used."

Preparing the Index Muscorum was a major undertaking. I am glad to have contributed to the usefulness of the work. My hope for stabilization of nomenclature by the work was vain. To the contrary: some authors grasped the opportunity to publish series of new names, mainly when IM signaled a generic name to be illegitimate. Prof. Van der Wijk and I did this too, but only for those names in which two or more references were needed in IM. I hoped to be able to prepare many proposals for conservation. This has to be done carefully. Again, pressing time prevented me from making all proposals which I envisaged. Specific names of Musci could not be proposed before the Tokyo Congress, though the Seattle Congress permitted them but with the strong restriction that the taxa involved should have economic importance. Only recently some serious drawbacks of the change of the starting point from Linnaeus to Hedwig are in the course of being redressed by conservation.

Since there has been a rather strong output of taxonomic literature on Musci since its publication, IM is outdated now. Crosby & al. have admirably filled this gap by publishing the Index of Mosses 1963–1989 (IoM) and Index of Mosses 1990–1992 (IoM-2, my abbreviations). They added the types of species published as new, the requirements having become stricter at nearly every Congress. Dixon already before the war suggested to include this information, which was not followed in IM, as far as I know because it would be too time consuming.

—25 March 1997

*ACANTHOCLADIUM Mitten, 1883.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Acanthocladium scabrifolium Brotherus in H. A. Möller, Hedwigia 60: 326. illustration. 1919.
Other use: *Mastopoma scabrifolium* (Brotherus in H. A. Möller) B. C. Tan & Ninh, 1998.
ACHROPHYLLUM Vitt & Crosby, 1972.
Achrophyllum anomalum var. ***pallidum*** (Cardot & Brotherus) He Si, J. Hattori Bot. Lab. 85: 107. 1998. [See He, Si, 1998.]
Basionym: *Pterygophyllum anomalum* var. *pallidum* Cardot & Brotherus, 1923.
ACROPORIUM Mitten, 1868.
Acroporium lamprophyllum var. ***percaudatum*** (E. B. Bartram) B. C. Tan, H. P. Ramsay & W. B. Schofield, Austral. Syst. Bot. 9: 321. 1996. [See Tan, B. C., H. P. Ramsay & W. B. Schofield, 1996.]
Basionym: *Acroporium percaudatum* E. B. Bartram, 1961.
Acroporium microcladum (Dozy & Molkenboer) B. C. Tan in B. C. Tan, A. C. Church & Windadri, Trop. Biodiv. 4: 236. 1997. [See Tan, B. C., A. C. Church & F. I. Windadri, 1997.]
Basionym: *Hypnum microcladon* Dozy & Molkenboer, 1844.
Acroporium microcladum var. ***burleyi*** B. C. Tan in B. C. Tan, A. C. Church & Windadri, Trop. Biodiv. 4: 236. f. 1. 1997. [See Tan, B. C., A. C. Church & F. I. Windadri, 1997.]
Type: Indonesia. "Kalimantan Tengah, Indah." *A. C. Church & F. I. Windadri NSF 996*. Holotype: BO; isotypes: BM, FH, H, L, NICH, NY. Paratypes cited.
Acroporium microcladum var. ***rhizogemmae*** B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 214. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Type: Australia. "Queensland: Mossman Gorge, Daintree National Park." *Tan, Brown & Coveny 94-701*. Holotype: NSW; isotypes: BM, FH, H, NY.
Acroporium percaudatum E. B. Bartram, Brittonia 13: 377. 1961.
Other use: *Acroporium lamprophyllum* var. *percaudatum* (E. B. Bartram) B. C. Tan, H. P. Ramsay & W. B. Schofield, 1996.
Acroporium scalarirete Dixon, Proc. Roy. Soc. Queensland 53 (2): 37. 1941.
Other use: *Eucamptodon scalarirete* (Dixon) B. C. Tan, H. P. Ramsay & W. B. Schofield, 1996.
Acroporium subluxurians (Dixon & Thériot) O'Shea, Trop. Bryol. 15: 82. 1998. [See O'Shea, B. J., 1998.]
Basionym: *Rhaphidostichum subluxurians* Dixon & Thériot, 1930.
ACTINODONTIUM Schwägrichen, 1826, rejected against *Lepidopilum*.
Actinodontium integrifolium (Brotherus in Urban) Churchill in W. R. Buck, Mem. New York Bot. Gard. 82: 49. 1998. [See Buck, W. R., 1998a.]
Basionym: *Lepidopilum integrifolium* Brotherus in Urban, 1903.
Actinodontium pygmaeum W. R. Buck, Mem. New York Bot. Gard. 82: 48. pl. 16: f. 9–14. 1998. [See Buck, W. R., 1998a.]
Type: Dominican Republic. "Prov. La Vega: 'La Laguna,' along trail up Pico Duarte, 6370 feet, humid hardwood forest, ca. 19°02'N, 70°55'W." *W. R. Buck 14131*. Jan 13, 1987. Holotype: NY.
ALOINA Kindberg, 1882, conserved name.
Aloina humilis M. T. Gallego, Cano & Ros in M. T. Gallego et al., Nova Hedwigia 67: 121. f. 1–18. 1998. [See Gallego, M. T., M. J. Cano, R. M. Ros, J. Guerra & G. M. Dirkse, 1998.]
Type: Spain. "Canary Islands: Fuerteventura, N slopes of Mont Ferduca, Morro de los Olivos, 3 km NNE of Páraja." *G. M. Dirkse MUB 6801*. Feb 12, 1992. Holotype: MUB. Paratypes cited.
AMBLYSTEGIUM W. P. Schimper in B.S.G., 1853.
Amblystegium polygamum W. P. Schimper in B.S.G., Bryol. Eur. 6: 60. pl. 572 (fasc. 55–56. Monogr. 16. pl. 10). 1853.
Other use: *Drepanocladus polygamus* (W. P. Schimper in B.S.G.) Hedenäs, 1997.
ANDREAEA Hedwig, 1801.
Andreaea gainii Cardot, Compt. Rend. Hebd. Séances Acad. Sci. 153: 602. 1911.
Other use: *Andreaea parallela* var. *gainii* (Cardot) Ochyra, 1996.
Andreaea parallela var. ***gainii*** (Cardot) Ochyra, Fragm. Florist. Geobot. 41: 479. 1996. [See Ochyra, R., 1996a.]
Basionym: *Andreaea gainii* Cardot, 1911.

Andreaea rothii var. ***huntii*** (Limpricht) Dixon, 1896.
Note: redundant combination in Düll, Bryol. Beitr. 4: 17 and 18. 1984.
Andreaea taiwanensis Chiang Tzen-yuh, Bot. Bull. Acad. Sin. 39: 58. f. 1. 1998. [See Chiang, Tzen-yuh, 1998a.]
Type: China. "Taiwan. Nantou Co., Mt. Yushantongfeng, ca. 3,200 m alt., in *Abies* forest on rock." *Chiang 24299*. Nov 30, 1987. Holotype: HAST.

ANISOTHECIUM Mitten, 1869.
Anisothecium cardotii (R. Brown ter) Ochyra, Moss Fl. King George Island Antarctica 114. 1998. [See Ochyra, R., 1998b.]
Basionym: *Dicranum cardotii* R. Brown ter, 1903.
Anisothecium crispum var. ***atlanticum*** C. E. O. Jensen, Bot. Faeröes 1: 161. 1901.
Other use: *Dicranella palustris* var. *atlantica* (C. E. O. Jensen) Lewinsky & Nyholm, 1984.

ANOMODON W. J. Hooker & Taylor, 1818.
Anomodon sect. ***Abbreviati*** Iwatsuki, J. Hattori Bot. Lab. 26: 45. 1963.
Other use: *Anomodon* subsect. *Abbreviati* (Iwatsuki) Granzow-de la Cerda, 1997.
Anomodon subsect. ***Abbreviati*** (Iwatsuki) Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 234. 1997. [See Granzow-de la Cerda, I., 1997.]
Basionym: *Anomodon* sect. *Abbreviati* Iwatsuki, 1963.
Anomodon subsect. ***Dentati*** Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 238. 1997. [See Granzow-de la Cerda, I., 1997.]
Type: Holotype: *Anomodon dentatus* Gao Chien.
Anomodon sect. ***Haplohymenium*** (Dozy & Molkenboer) Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 239. 1997. [See Granzow-de la Cerda, I., 1997.]
Basionym: *Haplohymenium* Dozy & Molkenboer, 1846.
Anomodon sect. ***Thrausti*** Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 246. 1997. [See Granzow-de la Cerda, I., 1997.]
Type: Holotype: *Anomodon thraustus* C. Müller.
Anomodon flagelliformis (Savicz-Ljubitskaya) Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 245. 1997. [See Granzow-de la Cerda, I., 1997.]
Basionym: *Haplohymenium flagelliforme* Savicz-Ljubitskaya, 1922.
Anomodon pellicula C. Müller, Hedwigia 36: 137. 1897.
Other use: *Lindbergia pellicula* (C. Müller) W. R. Buck & Schiavone, 1997.
Anomodon sieboldii (Dozy & Molkenboer) Granzow-de la Cerda, Contr. Univ. Michigan Herb. 21: 243. 1997. [See Granzow-de la Cerda, I., 1997.]
Basionym: *Leptohymenium sieboldii* Dozy & Molkenboer, 1844.
Anomodon solovjovii var. ***henanensis*** B. C. Tan, Boufford & Ying Tsun Shen, Acta Bot. Yunnan. 18: 69. f. 1–4. 1996. [See Tan, B. C. et al., 1996.]
Type: China. "Henan Province, Neixiang Xian . . . Tumuai Pass north of the city of Xiaquan, on tree trunk in secondary forest along a steep ravine." *Boufford et al. 26458-B*. Holotype: PE; isotypes: FH, H.

AONGSTROEMIA Bruch & W. P. Schimper in B.S.G., 1846, conserved orthography, "*Angstroemia*."
Aongstroemia alpina C. Müller, Bull. Herb. Boissier 5: 186. 1897.
Other use: *Leptotrichella alpina* (C. Müller) Ochyra, 1997.
Aongstroemia apophysatula C. Müller, Hedwigia 37: 118. 1898.
Other use: *Leptotrichella apophysatula* (C. Müller) Ochyra, 1997.
Aongstroemia austroëxigua C. Müller, Hedwigia 37: 117. 1898.
Other use: *Leptotrichella austroëxigua* (C. Müller) Ochyra, 1997.
Aongstroemia gymna C. Müller, Bull. Herb. Boissier 6: 43. 1898.
Other use: *Leptotrichella gymna* (C. Müller) Ochyra, 1997.
Aongstroemia hillebrandii C. Müller, Flora 82: 446. 1896.
Other use: *Leptotrichella hillebrandii* (C. Müller) Ochyra, 1997.
Aongstroemia lagunaria C. Müller, Bull. Herb. Boissier 5: 187. 1897.
Other use: *Leptotrichella lagunaria* (C. Müller) Ochyra, 1997.
Aongstroemia ligulifolia C. Müller, Flora 69: 507. 1886.
Other use: *Leptotrichella ligulifolia* (C. Müller) Ochyra, 1997.

Aongstroemia martiana Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 4: 41. 1872.
Other use: *Leptotrichella martiana* (Hampe) Ochyra, 1997.

Aongstroemia minuta Hampe, Linnaea 38: 209. 1874.
Other use: *Leptotrichella minuta* (Hampe) Ochyra, 1997.

Aongstroemia muralis Hampe, Ann. Sci. Nat. Bot., sér. 5, 3: 357. 1865.
Other use: *Leptotrichella muralis* (Hampe) Ochyra, 1997.

Aongstroemia pusilla Hampe, Ann. Sci. Nat. Bot., sér. 5, 3: 358. 1865.
Other use: *Leptotrichella pusilla* (Hampe) Ochyra, 1997.

Aongstroemia schmidii C. Müller, Bot. Zeitung (Berlin) 11: 39. 1853.
Other use: *Leptotrichella schmidii* (C. Müller) Ochyra, 1997.

Aongstroemia tenax C. Müller, Hedwigia 37: 117. 1898.
Other use: *Leptotrichella tenax* (C. Müller) Ochyra, 1997.

Aongstroemia tenax var. ***longipes*** C. Müller, Hedwigia 37: 117. 1898.
Other use: *Leptotrichella tenax* var. *longipes* (C. Müller) Ochyra, 1997.

Aongstroemia tenuisetula C. Müller, Hedwigia 37: 116. 1898.
Other use: *Leptotrichella tenuisetula* (C. Müller) Ochyra, 1997.

ARCHIDIUM Bridel, 1827.

Archidium clarksonianum Stone, J. Hattori Bot. Lab. 82: 271. f. 1–3. 1997. [See Stone, I. G., 1997b.]
Type: Australia. "Queensland . . . on fine silty soil, in semishade of *Melaleuca* trees, Wallman Falls Road, west of Ingham." *I. G. Stone 21207B*. Holotype: MEL. paratype cited.

ASTOMIOPSIS C. Müller, 1882.

Astomiopsis julacea (Bescherelle) K. L. Yip & Snider, Bryologist 100: 87. 1998. [See Yip, K. L. & J. A. Snider, 1998.]
Basionym: *Pleuridium julaceum* Bescherelle, 1898.

ATRACTYLOCARPUS Mitten, 1869, conserved name.

Atractylocarpus intermedius (B. H. Allen) Frahm, Ann. Bot. Fenn. 34: 201. 1997. [See Frahm, J.-P., 1997.]
Basionym: *Dicranodontium intermedium* B. H. Allen, 1992.

ATRICHUM Palisot de Beauvois, 1804, conserved name.

Atrichum rigidum Lorentz, Moosstudien 156. 1864.
Other use: *Hebantia rigida* (Lorentz) G. L. S. Merrill, 1996.

****Atrichum semiserratum*** Wen Xue-sen & Zhao Zun-tian, Fl. Bryophyt. Shandong. 308. f. 333. 1998. [See Zhao Zun-tian & Cao Tong (editors), 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).

Atrichum undulatum fo. ***ambiguum*** Savicz-Ljubitskaya, 1966. [See Savicz-Ljubitskaya, L. I., 1966.]
Type: U.S.S.R. "Rossia, vicinitates Mosquae, Petrovskoje-Rasumovskoje, ad magines fossae, in silva." *S. G. Nawaschin s.n.* Sep 1886. Holotype: LE.
Note: not in *Index of Mosses, 1963–1989*.

AULACOPILUM Wilson, 1848.

Aulacopilum abbreviatum Mitten, J. Linn. Soc., Bot. 13: 308. 5: D. 1873.
Other use: *Erpodium abbreviatum* (Mitten) Stone, 1997.

Aulacopilum glaucum Wilson, London J. Bot. 7: 90. 4: A. 1848.
Other use: *Erpodium glaucum* (Wilson) Stone, 1997.

Aulacopilum japonicum Brotherus ex Cardot, Bull. Soc. Bot. Genève, sér. 2, 1: 131. 1909.
Other use: *Erpodium noguchianum* Stone, 1997.

Aulacopilum schaeferi H. Crum, Bryologist 91: 191. f. 1–6. 1988.
Other use: *Erpodium schaeferi* (H. Crum) Stone, 1997.

Aulacopilum trichophyllum Ångström in C. Müller, Bot. Zeitung (Berlin) 20: 393. 1862.
Other use: *Erpodium glaucum* var. *trichophyllum* (Ångström in C. Müller) Stone, 1997.

AUSTROPHILIBERTIELLA Ochyra, Fragm. Florist. Geobot. 41: 478. 1996. [See Ochyra, R., 1996c.]
Replaced name: *Philibertiella* Cardot, 1914.
Blocking name: *Philibertella* Vail, 1897.

Austrophilibertiella ditrichoidea (Cardot) Ochyra, Fragm. Florist. Geobot. 41: 478. 1996. [See Ochyra, R., 1996c.]
Basionym: *Philibertiella ditrichoidea* Cardot, 1914.

Austrophilibertiella nitens (Herzog) Ochyra, Fragm. Florist. Geobot. 41: 478. 1996. [See Ochyra, R., 1996c.]
Basionym: *Philibertiella nitens* Herzog, 1960.

BARBELLOPSIS Brotherus in Handel-Mazzetti, 1929.
Barbellopsis trichophora (Montagne) W. R. Buck, Mem. New York Bot. Gard. 82: 265. 1998. [See Buck, W. R., 1998a.]
Basionym: *Isothecium trichophorum* Montagne, 1843.

BARBULA Hedwig, 1801, conserved name.
Barbula adriatica Baumgartner in Ginzberger, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 92: 325. 1915.
Other use: *Didymodon fallax* var. *adriatica* (Baumgartner in Ginzberger) Düll, 1984.
Barbula aquatica Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906. [See Thériot, I., 1906.]
Type: China. "Prov. Kouy-Tchéou." *J. Cavalerie 1244*. Aug 8, 1903.
Note: not in *Index Muscorum*.
Barbula convoluta var. ***eustegia*** (Cardot & Thériot) Zander, Bryologist 100: 520. 1997 [1998]. [See Zander, R. H., 1997 [1998].]
Basionym: *Barbula eustegia* Cardot & Thériot, 1900.
Barbula eustegia Cardot & Thériot, Bot. Gaz. 30: 17. 1900.
Other use: *Barbula convoluta* var. *eustegia* (Cardot & Thériot) Zander, 1997 [1998].
Barbula flexicaulis C. Müller, Hedwigia 38: 107. 1899.
Other use: *Schistidium flexicaule* (C. Müller) Ochyra, 1998.
Barbula seramensis H. Akiyama, Trop. Bryol. 12: 161. f. 2. 1996. [See Akiyama, H., 1996.]
Type: Indonesia. "Central Seram, en route from Nihehata to Hatumete, 180 m alt." *H. Akiyama C-16743*. Holotype: HYO; isotypes: BM, BO, FH, H, L, MO, NY. Paratypes cited.

BARTRAMIA Hedwig, 1801, conserved name.
Bartramia mathewsii subsp. ***brasiliensis*** Fransén, Lindbergia 20: 160. 1995 [1996]. [See Fransén, S., 1995 [1996].]
Type: Brazil. "Rio de Janeiro, Serra do Itatiaia, Parque Nacional de Itatiaia, Abrigo Rebouças." *Vital 5552*. 1976-11-02. Holotype: FLAS. Paratypes cited.
Bartramia mathewsii subsp. ***synoica*** Fransén, Lindbergia 20: 160. 1995 [1996]. [See Fransén, S., 1995 [1996].]
Type: Venezuela. "Mérida: Dist. Liberator, Parque Nacional Sierra Neveda, Loma Redonda Teleférica station, along road to Los Nevados." *Fransén 1379*. Oct 17, 1981. Holotype: GB. Paratypes cited.
Bartramia potosica subsp. ***synoica*** Fransén, Lindbergia 20: 167. 1995 [1996]. [See Fransén, S., 1995 [1996].]
Type: Mexico. "Prov. México: Popocatépetl." *Sharp 4742*. 1945-12-02. Holotype: FLAS; isotype: MICH. Other indicated distribution: Guatemala.

BARTRAMIDULA Bruch & W. P. Schimper in B.S.G., 1846, conserved name.
Bartramidula griffithiana var. ***sikkimensis*** Kabiersch, Hedwigia 77: 94. 1937.
Other use: *Philonotis sikkimensis* (Kabiersch) T. Koponen, 1998.

BRACHYDONTIUM Fürnrohr, 1827.
Brachydontium polycarpum H. Akiyama, Acta Phytotax. Geobot. 48: 62. f. 1–3. 1997. [See Akiyama, H., 1997.]
Type: Japan. "Honshu, Toyama Pref., Tateyamacho, Murodo, around Raicho-zawa, 2300 m alt., on surface or in a shallow crack of boulder at exposed, alpine rocky place beside a temporarily flowing stream." *Hiroyuki Akiyama 12880*. Sep 10, 1994. Holotype: HYO; isotypes: BM, FH, L, NICH, NY. Paratype cited.

BRACHYMENIUM Schwägrichen, 1824.
****Brachymenium brevicapsulare*** A. Eddy, Handb. Males. Mosses 3: 166. 1996. [See Eddy, A., 1996.]
*invalid, orthographical variant (Article 61.1, St. Louis Code).
Correct name: *Brachymenium brevicarpum* Ochi & Streimann, 1987.
Brachymenium debilinerve B. H. Allen, Novon 8: 107. f. 1a–h. 1998. [See Allen, B., 1998a.]
Type: Panama. "Chiriquí: Fortuna Dam region, along trail to Cerro Hornito (Pate de Macho), on southern ridge of watershed, 8°45′N, 82°15′ W, 1800–1950 m." *McPherson 13595D*. Jan 17, 1989. Holotype: MO; isotype: PMA.
Brachymenium exoticosporum B. H. Allen, Novon 8: 109. f. 2a–i. 1998. [See Allen, B., 1998a.]

Type: Panama. "Chiriquí and Bocas del Toro: ridge top N of Cerro Pate Macho, ca. 5 km NE of Boquete above Palo Alto area, 8°48′N, 82°24′W, 1950–2200 m." *Hammel, Grayum, McPherson & Smith 14404*. Holotype: MO; isotype: PMA.

Brachymenium meruense (C. Müller) Lindau in Engler, Pflanzenw. Ost-Afrikas C: 71. 1895. [See Lindau, G., 1895.]
Basionym: *Bryum meruense* C. Müller, 1890.
Note: not in *Index Muscorum*.

BRACHYTHECIUM W. P. Schimper in B.S.G., 1853.

Brachythecium sect. ***Albicantia*** Nyholm ex Ochyra, Fragm. Florist. Geobot. 43: 290. 1998. [See Ochyra, R., 1998d.]
Type: Holotype: *Brachythecium albicans* (Hedwig) Schimper in B.S.G..

Brachythecium sect. ***Pseudocirriphyllum*** Ignatov, Arctoa 7: 133. 1998. [See Ignatov, M. S., 1998.]
Type: Holotype: *Hypnum cirrosum* Schwaegrichen, *B. cirrosum* (Schwaegrichen) Schimper.

Brachythecium bodinieri Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906. [See Thériot, 1906.]
Type: China. "Prov. Kouy-Tchéou." *Em. Bodinier 2421*. Jul 17, 1898.
Note: treated as invalid in *Index Muscorum*.

Brachythecium erytrhorrhizon subsp. ***asiaticum*** Ignatov, Arctoa 7: 105. f. 13–14. 1998. [See Ignatov, M. S., 1998.]
Type: Russia. "Altai Mts., 50°25′[N], 89°03′[E], Ayulyuyuzyuk Creek, 2500 m alt., on moderately dry rocks in open tundra." *M. Ignatov 0/1656*. Jun 16, 1989. Holotype: MHA.

Brachythecium gangulianum (Vohra) Ochyra, Fragm. Florist. Geobot. 43: 277. 1998. [See Ochyra, R., 1998c.]
Basionym: *Hygroamblystegium gangulianum* Vohra, 1980 [1982].

Brachythecium laevipes Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906. [See Thériot, 1906.]
Type: China. "Prov. Kouy-Tchéou." *J. Cavalerie 834*. Nov 1902.
Note: treated as invalid in *Index Muscorum*.

Brachythecium latinervium Hedenäs, Nova Hedwigia 62: 453. f. 1B–E. 1996. [See Hedenäs, L., 1996a.]
Type: Australia. "Victoria, Mt. Baw Baw, 37°50′S, 146°17′E, 1520 m alt. On wet peaty ground." *D. McVean 26548*. Oct 1965. Holotype: CBG 9202678. Other indicated distribution: Australia (New South Wales).

****Brachythecium pinnatum*** Takaki, J. Hattori Bot. Lab. 15: 6. 9. 1955.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Brachythecium pinnatum* Dixon, 1920.
Other use: *Brachythecium propinnatum* Redfearn, B. C. Tan & He Si, 1996.

Brachythecium propinnatum Redfearn, B. C. Tan & He Si, J. Hattori Bot. Lab. 79: 184. 1996. [See Redfearn, P. L., Jr., B. C. Tan & S. He, 1996.]
Replaced name: *Brachythecium pinnatum* Takaki, 1955.
Blocking name: *Brachythecium pinnatum* Dixon, 1920.

Brachythecium ruderale (Bridel) W. R. Buck, Mem. New York Bot. Gard. 82: 240. 1998. [See Buck, W. R., 1998a.]
Basionym: *Hypnum ruderale* Bridel, 1812.

Brachythecium subpopuleum Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906.
Type: China. "Prov. Kouy-Tchéou." *J. Cavalerie 857*. Jan 1903.
Note: treated as invalid in *Index Muscorum*.

BREUTELIA (Bruch & W. P. Schimper) W. P. Schimper, 1856.

Breutelia papuensis Virtanen, Acta Bot. Fenn. 156: 60. f. 6, 8. 1996. [See Virtanen, V., 1996.]
Type: Papua New Guinea. "Western Highlands, Wabag subdistrict, northern slopes of Sugarloaf (along Wapu river), in treefern grassland, 3100 m (c. 9,500 ft), terrestrial." *Hoogland & Schodde 7026*. 1960. Holotype: L. Other indicated distribution: Irian Jaya. Paratypes cited.

BRUCHIA Schwägrichen, 1824.

Bruchia palustris var. ***degenii*** Györffy, Rev. Bryol. 35: 38. 39. 1908.
Other use: *Cleistocarpidium palustre* var. *degenii* (Györffy) Ochyra & Bednarek-Ochyra, 1996.

BRYODIXONIA Sainsbury, 1945.

Bryodixonia perichaetialis Sainsbury, Trans. & Proc. Roy. Soc. New Zealand 75: 177. 36 f. 1. 1945.
Other use: *Ulota perichaetialis* (Sainsbury) Goffinet in Goffinet & Vitt, 1998.

BRYOMALTAEA Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 151. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Type: Holotype: *Zygodon obtusifolius* W. J. Hooker, *M. obtusifolia* (W. J. Hooker) Goffinet in Goffinet & Vitt.
Original placement: Orthotrichaceae.
Bryomaltaea obtusifolia (W. J. Hooker) Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 151. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Basionym: *Zygodon obtusifolius* W. J. Hooker, 1819.

BRYUM Hedwig, 1801.
Bryum acutifolium (Thériot) Arts, J. Bryol. 19: 76. 1996. [See Arts, T., 1996.]
Basionym: *Splachnobryum acutifolium* Thériot, 1930.
Bryum atropurpureum var. ***arenarium*** Husnot, Muscol. Gall. 244. 1889.
Replaced name: *Bryum arenarium* Juratzka, 1882.
Blocking name: *Bryum arenarium* Sauter, 1870.
Other use: *Bryum mildeanum* var. *arenarium* Demaret & R. Wilczek in Demaret, 1993.
Bryum billarderi Schwägrichen, Sp. Musc. Frond., Suppl. 1(2): 115. pl. 76. 1816.
Other use: *Rosulabryum billarderi* (Schwägrichen) Spence, 1996.
Bryum campylothecium Taylor, London J. Bot. 5: 52. 1846.
Other use: *Rosulabryum campylothecium* (Taylor) Spence, 1996.
Bryum capillare Hedwig, Sp. Musc. Frond. 182. 1801.
Other use: *Rosulabryum capillare* (Hedwig) Spence, 1996.
Bryum eremaeum Catcheside ex Spence & H. P. Ramsay, J. Adelaide Bot. Gard. 17: 112. f. 3. 1996. [See Spence, J. R. & H. P. Ramsay, 1996.]
Type: Australia. "South Australia: Mirra Mitta Bore, midway between Morree and Birdsville." *R. E. Grandison s.n.* Sep 1978. Holotype: AD. Other indicated distribution: Australia (New South Wales, Victoria).
Bryum leptothrix C. Müller, Hedwigia 37: 94. 1898.
Other use: *Rosulabryum leptothrix* (C. Müller) Spence, 1996.
Bryum meruense C. Müller, Flora 73: 475. 1890.
Other use: *Brachymenium meruense* (C. Müller) Lindau, 1895.
Bryum microrhodon C. Müller, Hedwigia 37: 108. 1898.
Other use: *Rosulabryum microrhodon* (C. Müller) Spence, 1996.
Bryum mildeanum var. ***arenarium*** Demaret & R. Wilczek in Demaret, Fl. Gén. Belgique, Bryoph. 3(2): 241. 1993. [See Stieperaere, H. (editor), 1993.]
Basionym: ***Bryum atropurpureum*** var. ***arenarium*** Husnot, 1889.
Note: not in *Index of Mosses, 1993–1995*; basionym cited as "*B. arenarium* Jur.," a later homonym.
****Bryum sabulosum*** Catcheside ex Spence & H. P. Ramsay, J. Adelaide Bot. Gard. 17: 114. f. 4. 1996. [See Spence, J. R. & H. P. Ramsay, 1996.]
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Bryum sabulosum* Thériot, 1930.
Type: Australia. "Western Australia: Porongorups." *F. Mueller s.n.* Oct 1867. Holoytpe: MEL. Other indicated distribution: Australia (South Australia, Victoria).
Bryum stellituber Arts, J. Bryol. 19: 453. f. 1–2. 1997. [See Arts, T., 1997.]
Type: India. "Uttar Pradesh, Naini Tal, Corbett Tiger Rsereve, Dhikala lodges along the Ramganga River, 79°00′E, 29°29′N, on ditch side surrounding the camp, on soil, alt. 380 m." *T. Arts In08/26.* Feb 15, 1996. Holotype: BR; isotype: herb. Arts.
Bryum torquescens Bruch ex De Notaris, Syllab. Musc. 163. 1838.
Other use: *Rosulabryum torquescens* (Bruch ex De Notaris) Spence, 1996.
Bryum tuberosum Mohamed & Damanhuri, Bryologist 93: 288. f. 1–10. 1990.
Other use: *Rosulabryum tuberosum* (Mohamed & Damanhuri) Spence, 1996.
Bryum wightii Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 74. 1859.
Other use: *Rosulabryum wightii* (Mitten) Spence, 1996.

CALLICOSTA C. Müller, 1848.
**Callicosta amazonica* Yano, Bol. Inst. Bot. (São Paulo) 10: 93. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code), "*amazonicus*."
**Callicosta difficilis* Yano, Bol. Inst. Bot. (São Paulo) 10: 93. 1996, "*difficile*." [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Callicosta microthamnia* Yano, Bol. Inst. Bot. (São Paulo) 10: 93. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Callicosta subheterophylla* Yano, Bol. Inst. Bot. (São Paulo) 10: 93. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
CALLICOSTELLA (C. Müller) Mitten, 1859, conserved name.
Callicostella papillata var. *prabaktiana* (C. Müller) Streimann, J. Hattori Bot. Lab. 82: 294. 1997.
Basionym: *Hookeria prabaktiana* C. Müller, 1851.
CALYMPERES Swartz ex Weber, 1814 [1813].
Calymperes peguense Bescherelle, Ann. Sci. Nat. Bot., sér. 8, 1: 299. 1896.
Other use: *Syrrhopodon peguensis* (Bescherelle) W. D. Reese, 1997.
Calymperes woodii L. Ellis, Bull. Nat. Hist. Mus. Lond. (Bot.) 27: 7. f. 1. 1997. [See Ellis, L. T., 1997.]
Type: Malaysia. "Peninsular Malaysia, Negeri Sembilan, Sungei Manyala Forest Reserve, 10 miles SE of Port Dickson, FRI (Forest Research Institute) jungle plot 102, ca. 18 m." *G. H. S. Wood 1372*. Jan 13, 1954. Holotype: BM; isotype: "BM-K." Paratypes cited.
CALYPTROCHAETA Desvaux, 1825.
**Calyptrochaeta flexicaulis* Yano, Bol. Inst. Bot. (São Paulo) 10: 94. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Calyptrochaeta lorifolius* Yano, Bol. Inst. Bot. (São Paulo) 10: 94. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
Calyptrochaeta mollis (Bescherelle) Matteri, Fragm. Florist. Geobot. 43: 299. 1998. [See Matteri, C. M., 1998.]
Basionym: *Distichophyllum molle* Bescherelle, 1889.
**Calyptrochaeta monilidontius* Yano, Bol. Inst. Bot. (São Paulo) 10: 94. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
CAMPTOCHAETE Reichardt, 1870.
Camptochaete arbuscula var. *tumida* Tangney, J. Hattori Bot. Lab. 81: 84. f. 18. 1997. [See Tangney, R. S., 1997a.]
Type: New Zealand. "South Island, Fiordland, Borland Burn near Borland Lodge, c. 10 km by road from Lake Monowai." *Tangney 2443*. Holotype: OTA; isotypes: CHR, WELT, AK, NY, BM. Paratypes cited.
Camptochaete curvata Tangney, J. Hattori Bot. Lab. 81: 107. f. 31. 1997. [See Tangney, R. S., 1997a.]
Type: Australia. "Queensland: Acacia Plateau, Great Dividing Range, 13 km NE of Killarney." *H. Streimann 243*. Holotype: CBG; isotypes: MEL, MO, NICH, L. Other indicated distribution: Australia (New South Wales).
Camptochaete papuana Tangney, J. Hattori Bot. Lab. 81: 115. f. 37. 1997. [See Tangney, R. S., 1997a.]
Type: Papua New Guinea. "Eastern Highlands Province: near Hogabi Village, 6 km SW of Lufa, 6°21′S, 145°16′E, 1850 m." *H. Streimann 18719*. Holotype: CBG; isotypes: CBG, LAE, NICH.
CAMPYLIADELPHUS (Kindberg) R. S. Chopra, 1975.
Campyliadelphus glaucocarpoides (E. S. Salmon) Hedenäs, Bryologist 100: 78. 1997. [See Hedenäs, L., 1997.]
Basionym: *Hypnum glaucocarpoides* E. S. Salmon, 1900.
CAMPYLIUM (Sullivant in A. Gray) Mitten, 1869.
Campylium calcareum Crundwell & Nyholm, Trans. Brit. Bryol. Soc. 4: 198. f. 2: b. 1962 [1963].
Other use: *Campylophyllum calcareum* (Crundwell & Nyholm) Hedenäs, 1997.
Campylium calcareum fo. *latifolia* Schljakov Novosti Syst. Nizš. Rast. 32: 183. 1998. [See Schljakov, R. N., 1998.]

Type: Russia. "Altai Mont., rivulus Chemal 3 km ab ostio, silva mixta in valle inundata, ad laidem in loco humido, cum *Serpoleskea confervoidi* (Brid.) Kartt." *M. S. Ignatov & E. A. Ignatova 34/182.* Holotype: LE; isotype: MHA.

Campylium quisqueyanum W. R. Buck, Beih. Nova Hedwigia 90: 338. 1988.

Other use: *Campylophyllum quisqueyanum* (W. R. Buck) Hedenäs, 1997.

CAMPYLOPHYLLUM (W. P. Schimper) Fleischer, 1914.

Campylophyllum calcareum (Crundwell & Nyholm) Hedenäs, Bryologist 100: 74. 1997. [See Hedenäs, L., 1997.]

Basionym: *Campylium calcareum* Crundwell & Nyholm, 1962 [1963].

Campylophyllum creperum (Mitten) Hedenäs, Bryologist 100: 75. 1997. [See Hedenäs, L., 1997.]

Basionym: *Stereodon creperus* Mitten, 1859.

Campylophyllum hispidulum (Bridel) Hedenäs, Bryologist 100: 74. 1997. [See Hedenäs, L., 1997.]

Basionym: *Hypnum hispidulum* Bridel, 1812.

Campylophyllum lacerulum (Mitten) Hedenäs, Bryologist 100: 75. 1997. [See Hedenäs, L., 1997.]

Basionym: *Stereodon lacerulus* Mitten, 1859.

Campylophyllum quisqueyanum (W. R. Buck) Hedenäs, Bryologist 100: 76. 1997. [See Hedenäs, L., 1997.]

Basionym: *Campylium quisqueyanum* W. R Buck, 1988.

Campylophyllum sommerfeltii (Myrin) Hedenäs, Bryologist 100: 75. 1997. [See Hedenäs, L., 1997.]

Basionym: *Hypnum sommerfeltii* Myrin, 1831.

CAMPYLOPODIUM (C. Müller) Bescherelle, 1873.

†***Campylopodium allonense*** Konopka, Herendeen & P. Crane, Amer. J. Bot. 85: 715. f. 1–12. 1998. [See Konopka, A. S., P. S. Herendeen & P. R. Crane, 1998.]

Type: U.S.A. "Approximately 9.5 km southeast of Roberta, Georgia, at the south pit of the Atlanta Sand and Supply Company at Gaillard, Crawford County, Georgia (USGS Knoxville Quadrangle, lat. 32°37′47″N, long. 83°59′10″W." *Collector not indicated.* Holotype: F-PP 44725. Paratypes cited.

CAMPYLOPUS Bridel, 1819 [1818].

Campylopus circinatus Frahm, Cryptog. Bryol. Lichénol. 19: 24. f. 1–5. 1998. [See Frahm, J.-P., 1998.]

Type: Australia. "Victoria, Aireys Inlet, Distillery Creek, Fern Gully, on peaty ground in tree fern grove . . . quadrat M 14." *Angahook Regeneration Study Group s.n.* Oct 24, 1993. Holotype: MELU; isotype: BONN, herb. Frahm.

Campylopus extinctus Frahm, Bryologist 99: 218. 1996. [See Frahm, J.-P., 1996b.]

Type: Brazil. "Auf Baumfarnstamm cult. im Bot. Garten Göttingen. Sta. Catharina." *K. Grossmann s.n.* 1904, "eingelegt Februar 1906." Holotype: GOET.

****Campylopus fulvus*** Herzog, Biblioth. Bot. 87: 21. 1916. [See Herzog, T., 1916.]

*illegitimate, later homonym (Article 53.1, St. Louis Code).

Earlier name: *Campylopus fulvus* (W. J. Hooker) Kindberg, 1883.

Type: Bolivia. "An Baumwurzel im Tal des Rio Paracti, ca. 1800 m." *Herzog 4996.* Herbarium not indicated.

Note: not in *Index Muscorum.*

****Campylopus purpureocaulis*** var. ***aberrans*** Frahm, Bryol. Beitr. 7: 63. 1987. [See Frham, 1987.]

*invalid, basionym not cited (Article 33.3, St. Louis Code).

Note: not in *Index of Mosses, 1963–1989.*

Campylopus sinensis (C. Müller) Frahm, Ann. Bot. Fenn. 34: 202. 1997. [See Frahm, J.-P., 1997.]

Basionym: *Dicranum sinense* C. Müller, 1897.

Campylopus tenuinervis var. ***longifolius*** Baumgartner in J. Fröhlich, Ann. Naturhist. Mus. Wien 59: 70. 1953. [See Fröhlich, 1953.]

Type: "M.-Sumatra: O-hang des Singaland, 1750 m." *Schiffner 10200.* Herbarium not indicated. Paratypes cited.

Note: not in *Index Muscorum.*

CAMPYLOSTELIUM Bruch & W. P. Schimper in B.S.G., 1846.

Campylostelium pitardii (Corbière) E. Maier, Candollea 53: 307. 1998. [See Maier, E., 1998.]

Basionym: *Grimmia pitardii* Corbière, 1909.

CANALOHYPOPTERYGIUM W. Frey & Schaepe, 1989.
Canalohypopterygium tamariscinum (Hedwig) Kruijer, Lindbergia 20: 87. 1995 [1996].
Basionym: *Leskea tamariscina* Hedwig, 1801.
CARDOTIELLA Vitt, 1981.
Cardotiella elimbata (Thériot) Goffinet, Bryologist 99: 390. 1996. [See Goffinet, B., 1996.]
Basionym: *Micromitrium elimbatum* Thériot, 1930.
CEPHALOCLADIUM Lazarenko, 1946.
Cephalocladium zerovii Lazarenko, Bot. Žurn. (Kiev) 3: 62. 1946.
Other use: *Struckia zerovii* (Lazarenko) Hedenäs, 1996.
CHRYSO-HYPNUM Hampe, 1870.
Chryso-hypnum arcticum R. S. Williams, Rep. Canad. Arctic Exped. 4(E): 10. f. 13–18. 1921.
Other use: *Drepanocladus arcticus* (R. S. Williams) Hedenäs, 1997.
Chryso-hypnum salleanum (Bescherelle) W. R. Buck, Mem. New York Bot. Gard. 82: 335. 1998. [See Buck, W. R., 1998a.]
Basionym: *Hypnum salleanum* Bescherelle, 1872.
CLEISTOCARPIDIUM Ochyra & Bednarek-Ochyra, Fragm. Florist. Geobot. 41: 1035. 1996. [See Ochyra, R. & H. Bednarek-Ochyra, 1996.]
Type: Holotype: *Phascum palustre* Bruch & W. P. Schimper, *C. palustre* Ochyra & Bednarek-Ochyra.
Original placement: Ditrichaceae.
Cleistocarpidium palustre (Bruch & W. P. Schimper) Ochyra & Bednarek-Ochyra, Fragm. Florist. Geobot. 41: 1035. 1996. [See Ochyra, R. & H. Bednarek-Ochyra, 1996.]
Basionym: *Phascum palustre* Bruch & W. P. Schimper, 1835.
Cleistocarpidium palustre var. ***degenii*** (Györffy) Ochyra & Bednarek-Ochyra, Fragm. Florist. Geobot. 41: 1036. 1996. [See Ochyra, R. & H. Bednarek-Ochyra, 1996.]
Basionym: *Bruchia palustris* var. *degenii* Györffy, 1908.
***CONOMITRIUM** Montagne, 1837.
*illegitimate, type of earlier name included (Article 52.1, St. Louis Code).
Conomitrium ulna C. Müller, Linnaea 39: 372. 1875.
Other use: *Fissidens sciophyllus* fo. *ulna* (C. Müller) Bruggeman-Nannenga, 1997.
CONOSTOMUM Swartz in Weber & D. Mohr, 1804.
Conostomum crassinervium Potier de la Varde, Ark. Bot., ser. 2, 3: 169. 23. 1955.
Other use: *Philonotis conostomoides* Ochyra, 1997.
Conostomum pusillum var. ***otagoensis*** Fife, New Zealand J. Bot. 36: 614. f. 5a–f. 1998. [See Fife, A. J., 1998.]
Type: New Zealand. "Otago, summit of Waikaka-Heriot Road, c. 2000 ft." *J. Child 5980*. Dec 1981. Holotype: CHR-428537. Paratypes cited.
COSCINODON Sprengel, 1804.
Coscinodon arctolimnius subsp. ***higuchii*** Hastings & Deguchi, Bryologist 100: 51. f. 21–33. 1997. [See Hastings, R. I. & H. Deguchi, 1997.]
Type: Pakistan. "North-West Frontier Prov., Kaghan Vallen, Batakuni; 2680 m alt., on boulder." *Higuchi 19830*. Aug 26, 1990. Holotype: TNS; isotype: HIRO. Other indicated distribution: Mongolia.
Coscinodon pseudocribrosus Hastings, Bryologist 99: 424. f. 17–26. 1996. [See Hastings, R. I., 1996.]
Type: Bolivia. "Felsen am Huaillattanisee, Bolivia, alt. 4900 m." *Th. Herzog 2970*. Oct 1911. Holotype: L; isotypes: FH, L, S. Paratypes cited.
CRATONEURON (Sullivant in A. Gray) Spruce, 1867.
Cratoneuron longicostatum Bai Xue-liang, Fl. Bryophyt. Intramongol. 385. f. 126. 1997. [See Bai Xue-liang, 1997.]
Type: China. "Nei Mongol: Helanshan, Beisi, alt. 2000 m, in solis." *Tun Chi-kuo 1249*. Jul 7, 1962. Holotype: HIMC.
CRYPHAEA D. Mohr & Weber, 1814 [1813].
Cryphaea hortonae León V., Trop. Bryol. 14: 78. f. 1–2. 1998. [See León V., Y., 1998.]
Type: Bolivia. "Dpto. La Paz, Prov. Inquisivi: Pavionani. Headwaters of Río Chimu. Area of ultimate trees, which are scattered amongst grassland on boulder piles and at the bases of cliffs. Rocks are black metamorphic. Seasonally super humid and frequently foggy. *Weinmania* [sic], *Gynoxis*, *Berberis*, *Miconia* woodlands. On twigs and small branchlets, ca. 3750 m." *Lewis 38568 d-1*. Holotype: MO. Paratypes cited.

****Cryphaea leptopteris*** Enroth & T. Koponen, Harvard Pap. Bot. 10: 1. f. A–L. 1997. [See Enroth, J. & T. Koponen, 1997a.]
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Cryphaea leptopteris* C. Müller, 1901.
Type: China. "NW Sichuan Province, Mingshan Range, Songpan County, valley of River Fujiang, 3 km E of Huanglong Hotel, lower oroboreal *Picea-Abies-Acer-Lonicera-Salix-Juniperus-Rosa* forest, 32°45′N, 103°52′E, 2900–2930 m, on trunk of *Abies* at 1 m height." *T. Koponen 45197*. Sep 9, 1991. Holotype: H.
Other use: *Cryphaea songpanensis* Enroth & T. Koponen, 1997.

Cryphaea songpanensis Enroth & T. Koponen, Ann. Bot. Fenn. 34: 205. 1997. [See Enroth, J. & T. Koponen, 1997b.]
Replaced name: *Cryphaea leptopteris* Enroth & T. Koponen, 1997.
Blocking name: *Cryphaea leptopteris* C. Müller, 1901.

CYCLODICTYON Mitten, 1863.

Cyclodictyon lorentzii (C. Müller) W. R. Buck & Schiavone, Bol. Soc. Argent. Bot. 32: 261. 1997. [See Buck, W. R. & M. M. Schiavone, 1997.]
Basionym: *Hookeria lorentzii* C. Müller, 1882.

DENDROCYATHOPHORUM Dixon, 1936.

Dendrocyathophorum decolyi (Brotherus ex Fleischer) Kruijer, Lindbergia 20: 90. 1995–96 [1996].
Basionym: *Hypopterygium decolyi* Brotherus ex Fleischer, 1908.

DICRANELLA (C. Müller) W. P. Schimper, 1856, conserved name.

Dicranella afroëxigua C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28 (3): 8. a–e, 48. 1896.
Other use: *Leptotrichella afroëxigua* (C. Müller ex Dusén) Ochyra, 1997.

Dicranella ampullacea C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28 (3): 7. a–h, 29–31. 1896.
Other use: *Leptotrichella ampullacea* (C. Müller ex Dusén) Ochyra, 1997.

Dicranella barbensis Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 31 (1): 145. 1893.
Other use: *Leptotrichella barbensis* (Renauld & Cardot) Ochyra, 1997.

Dicranella crenulata Brotherus, Bih. Kongl. Svenska Vetensk.-Akad. Handl., 26 Afd., 3 (7): 7. 1900.
Other use: *Leptotrichella crenulata* (Brotherus) Ochyra, 1997.

Dicranella denticulata Cardot & Potier de la Varde in Potier de la Varde, Rev. Bryol. 49: 34. pl. 1: f. 1. 1922.
Other use: *Leptotrichella denticulata* (Cardot & Potier de la Varde in Potier de la Varde) Ochyra, 1997.

Dicranella edentata Mitten, J. Linn. Soc., Bot. 13: 295. 1873.
Other use: *Leptotrichella edentata* (Mitten) Ochyra, 1997.

Dicranella glauca Bescherelle, Ann. Sci. Nat. Bot., sér. 5, 18: 189. 1873.
Other use: *Leptotrichella glauca* (Bescherelle) Ochyra, 1997.

Dicranella glauca var. ***minor*** Brotherus, Oefvers. Förh. Finska Vetensk.-Soc. 48(15): 3. 1906.
Other use: *Leptotrichella glauca* var. *minor* (Brotherus) Ochyra, 1997.

Dicranella guadelupensis Mitten, J. Linn. Soc., Bot. 12: 37. 1869.
Other use: *Leptotrichella guadelupensis* (Mitten) Ochyra, 1997.

Dicranella infuscata Thwaites & Mitten, J. Linn. Soc., Bot. 13: 295. 1873.
Other use: *Leptotrichella infuscata* (Thwaites & Mitten) Ochyra, 1997.

Dicranella krausei Lorentz, Bot. Zeitung (Berlin) 24: 186. 1866.
Other use: *Symblepharis krausei* (Lorentz) Ochyra & Matteri, 1996.

Dicranella leibergii R. S. Williams, Bull. Torrey Bot. Club 42: 571. 1915.
Other use: *Leptotrichella leibergii* (R. S. Williams) Ochyra, 1997.

Dicranella longifolia Brotherus, Bot. Jahrb. Syst. 56 (Beibl. 123): 4. 1920.
Other use: *Leptotrichella linearifolia* (Brotherus) Ochyra, 1997.

Dicranella palustris var. ***atlantica*** (C. E. O. Jensen) Lewinsky & Nyholm, Lindbergia 10: 192. 1984. [See Lewinsky, J. & E. Nyholm, 1984 [1985].]
Basionym: *Anisothecium crispum* var. *atlanticum* C. E. O. Jensen, 1901.
Note: not in *Index of Mosses, 1963–1989*.

Dicranella subangulata Thwaites & Mitten, J. Linn. Soc., Bot. 13: 296. 1873.
Other use: *Leptotrichella subangulata* (Thwaites & Mitten) Ochyra, 1997.
Dicranella sumatrana Dixon, Ann. Bryol. 5: 20. 1932.
Other use: *Leptotrichella sumatrana* (Dixon) Ochyra, 1997.
Dicranella torrentium Thériot & Potier de la Varde, Rev. Gén. Bot. 29: 290. 1917.
Other use: *Leptotrichella torrentium* (Thériot & Potier de la Varde) Ochyra, 1997.
DICRANODONTIUM Bruch & W. P. Schimper in B.S.G., 1847.
Dicranodontium brasiliense Herzog, Hedwigia 67: 254. 1927.
Other use: *Dicranodontium pulchroalare* subsp. *brasiliense* (Herzog) Frahm, 1997.
Dicranodontium intermedium B. H. Allen, Novon 2: 1. f. 1–7. 1992.
Other use: *Atractylocarpus intermedius* (B. H. Allen) Frahm, 1997.
Dicranodontium pulchroalare subsp. ***brasiliense*** (Herzog) Frahm, Ann. Bot. Fenn. 34: 196. 1997. [See Frahm, J.-P., 1997.]
Basionym: *Dicranodontium brasiliense* Herzog, 1927.
DICRANOLOMA (Renauld) Renauld, 1901.
Dicranoloma chilense (De Notaris) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1005. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Dicranum chilense* De Notaris, 1859.
Dicranoloma steenisii Klazenga, Blumea 41: 11. Illustrations. 1996. [See Klazenga, N., 1996.]
Type: Papua New Guinea. "Eastern Highland Prov., Watabung terr., between Goroka and Kundiawa, 2620 m." *Iserentant B-48A*. Dec 1, 1989. Holotype: H; isotype: NY. Paratypes cited.
DICRANOWEISIA Lindberg ex Milde, 1869.
Dicranoweisia subglobosa (Herzog) He Si, J. Hattori Bot. Lab. 85: 129. 1998. [See He, Si, 1998.]
Basionym: *Hymenoloma subglobosum* Herzog, 1937.
DICRANUM Hedwig, 1801.
Dicranum chilense De Notaris, Mem. Reale Accad. Sci. Torino, ser. 2, 18: 454. 1859.
Other use: *Dicranoloma chilense* (De Notaris) Ochyra & Matteri, 1996.
Dicranum densum W. J. Hooker, Pl. Crypt. Pl. 2A. 1816.
Other use: *Leptotrichella densa* (W. J. Hooker) Ochyra, 1997.
Dicranum euchlorum Montagne, Ann. Sci. Nat. Bot., sér. 3, 4: 112. 1845.
Other use: *Leptotrichella euchlora* (Montagne) Ochyra, 1997.
Dicranum sinense C. Müller, Nuovo Giorn. Bot. Ital., n. s., 249. 1897.
Other use: *Campylopus sinensis* (C. Müller) Frahm, 1997.
DIDYMODON Hedwig, 1801.
Didymodon fallax var. ***adriatica*** (Baumgartner in Ginzberger) Düll, Bryol. Beitr. 4: 66. 1984. [See Düll, 1984.]
Basionym: *Barbula adriatica* Baumgartner in Ginzberger, 1915.
Note: not in *Index of Mosses, 1963–1989*.
Didymodon ferrugineus var. ***kneuckeri*** (Loeske & Osterald) Düll, Bryol. Beitr. 4: 66. 1984. [See Düll, 1984.]
Basionym: *Barbula kneuckeri* Loeske & Osterald, 1907.
Note: not in *Index of Mosses, 1963–1989*.
Didymodon gaochienii B. C. Tan & Jia Yu, J. Hattori Bot. Lab. 82: 309. f. 12–19. 1997. [See Tan, B. C. & Jia Yu, 1997.]
Type: China. Qinghai: "on trunk of willow near river, upper Laxiu, Baqu valley, Nangqen." *Tan 95-250*. Holotype: FH; isotypes: BM, H, KUN, NY, PE.
Didymodon hedysariformis Otnyukova, Arctoa 7: 207. f. 1–36. 1998. [See Otnyukova, T. N., 1998.]
Type: Russia. "South Siberia Mts., Tuva Republic, Todginskaya valley, 52°27′N, 96°04′E, Biy-Khem (Big Yenisey) River basin, its right bank, Toora-Khem River, on weathered basalt stones." *Otnyukova s.n.* Jul 13, 1996. Holotype: KRF; isotypes: ALA, BUF, MHA. Paratypes cited.
Didymodon sicculus Cano et al., Bryologist 99: 401. 1996. [See Cano, M. J., R. M. Ros, P. Garcia-Zamora & J. Guerra, 1996.]
Type: Spain. "Alicante. Calpe, salina El Saldar, UTM: BC 4481." *Cano & Ros s.n.* Mar 15, 1993. Holotype: MUB. Paratypes cited.
DIPHYSCIUM D. Mohr, 1803.
****Diphyscium kashmirense*** Ueno & Deguchi, IAB Symp. 2000's Bryol., Abstr. 28. 1997. [See Ueno, J. & H. Deguchi, 1997.]

*invalid, basionym not cited (Article 33.3, St. Louis Code).

***Diphyscium lorifolium** Ueno & Deguchi, IAB Symp. 2000's Bryol., Abstr. 28. 1997. [See Ueno, J. & H. Deguchi, 1997.]

*invalid, basionym not cited (Article 33.3, St. Louis Code).

DISTICHOPHYLLUM Dozy & Molkenboer, 1846.

Distichophyllum mniifolium* var. *taylorii (Sim) Magill in Magill & Rooy, Fl. S. Africa, Bryophyta 3: 614. 1998. [See Magill, R. E. & J. van Rooy, 1998.]

Basionym: *Distichophyllum taylorii* Sim, 1926.

Distichophyllum molle Bescherelle, Miss. Sci. Cape Horn, Bot. 5 (Bot.): 296. 1889.

Other use: *Calyptrochaeta mollis* (Bescherelle) Matteri, 1998.

Distichophyllum taylorii Sim, Trans. Roy. Soc. South Africa 15: 441. illustration. 1926, "*taylori*."

Other use: *Distichophyllum mniifolium* var. *taylorii* (Sim) Magill in Magill & Rooy, 1998.

DITRICHUM Hampe, 1867, conserved name.

Ditrichum gemmiferum Ochyra & Lewis-Smith, Ann. Bot. Fenn. 35: 46. f. 7–8. 1998. [See Ochyra, R. & R. I. Lewis-Smith, 1998.]

Type: South Shetland Islands. "Deception Island: Port Foster, geothermal area on slopes to E and SE of Pendulum Cove, lat. 62°57′S, long. 60°38′W, plants on rocks with no soil, 50–100 m." *R. I. Lewis-Smith 6921*. 1987–88. Holotype: AAS; isotype: KRAM. Other indicated distribution: Chile, Marion Island, South Sandwich Islands.

Ditrichum lewis-smithii Ochyra, Ann. Bot. Fenn. 33: 304. f. 1. 1996. [See Ochyra, R., 1996d.]

Type: Antarctica. "South Shetland Islands, King George Island: Admiralty Bay, Ezcurra inlet, Pond Hill, lat. 62°10′25″S, 58°36′W, elev. 160 m; in moist situation on bare ground on NW-facing slope." *Ochyra 1829/80*. Feb 11, 1980. Holotype: KRAM; isotypes: AAS, BM, H. Other indicated distribution: South Orkney Islands.

DREPANOCLADUS (C. Müller) G. Roth, 1899, conserved name.

Drepanocladus arcticus (R. S. Williams) Hedenäs, Bryologist 100: 82. 1997. [See Hedenäs, L., 1997.]

Basionym: *Chryso-hypnum arcticum* R. S. Williams, 1921.

Drepanocladus austrostramineus* var. *tenuissimus Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63 (10): 65. 1923.

Other use: *Warnstorfia austrostraminea* var. *tenuissima* (Cardot & Brotherus) Ochyra, 1996.

Drepanocladus cardotii (Thériot) Hedenäs, Bryologist 100: 82. 1997. [See Hedenäs, L., 1997.]

Basionym: *Hypnum cardotii* Thériot, 1900.

Drepanocladus polygamus (W. P. Schimper in B.S.G.) Hedenäs, Bryologist 100: 82. 1997. [See Hedenäs, L., 1997.]

Basionym: *Amblystegium polygamum* W. P. Schimper in B.S.G., 1853.

Drepanocladus sordidus (C. Müller) Hedenäs in W. R. Buck, Mem. New York Bot. Gard. 82: 217. 1998. [See Buck, W. R., 1998a.]

Basionym: *Hypnum sordidum* C. Müller, 1856.

ENCALYPTA Hedwig, 1801.

Encalypta obovatifolia Nyholm, Lindbergia 20: 83. f. 1. 1995–96 [1996]. [See Nyholm, E., 1995–96 [1996].]

Type: Sweden. "Gotland, Hoburgen." *Å. Hovgard s.n.* Jun 17, 1953. Holotype: S. Paratypes cited.

Encalypta tianschanica Zhao Jian-cheng, He Si & Hu Ren-liang, Novon 7: 320. f. 1–12. 1997. [See Zhao, Jian-cheng, S. He & Ren-liang Hu, 1997.]

Type: China. "Xinjiang: Tianshan Mountain Range, Guongnes forest station, near Guongnes River, 43°15′N, 84°45′E." *J.-C. Zhao 953288-b*. Jul 30, 1995. Holotype: HBNU; isotypes: HSNU, MO.

ENTODON C. Müller, 1845.

Entodon compressus* var. *parvisporus Wen Xue-sen & Zhao Zun-tian, Bull. Bot. Res., Harbin 17: 359. f. 1. 1997. [See Wen Xue-sen & Zhao Zun-tian, 1997.]

Type: China. "Shandong: Lushan, ad saxa humida in sylvis montium usque ad 900 m supra mare." *X. S. Wen 95110*. Oct 20, 1995. Holotype: Faculty of Pharmacy, Shandong Meidical University. Paratype cited.

Entodon verruculosus Wen Xue-sen, Acta Bot. Yunnan. 20: 47. f. 1. 1998. [See Wen Xue-sen, 1998.]

Type: China. "Shandong: Lushan, ad saxa humida in sylvis montium usque ad 900 m supra mare." *X. S. Wen 9452*. Oct 12, 1994. Holotype: Faculty of Pharmacy, Shandon Medical University.

ENTOSTHODON Schwägrichen, 1823.

Entosthodon maroccanus (Meylan) Hébrard & Lo Giudice, Bull. Soc. Linn. Provence 48: 145. 1997. [See Hébrard, J. P. & R. Lo Giudice, 1997.]

Basionym: *Physcomitrium maroccanum* Meylan, 1937.

†**EOPOLYTRICHUM** Konopka et al., Int. J. Pl. Sci. 158: 490. 1997. [See Konopka, A. S, P. S. Herendeen, G. L. S. Merrill & P. R. Crane, 1997.]

Type: Holotype: *E. antiquum* Konopka, Herendeen, G. L. S. Merrill & P. Crane.

Original placement: Polytrichaceae.

†***Eopolytrichum antiquum*** Konopka et al., Int. J. Pl. Sci. 158: 490. f. 1–16. 1997. [See Konopka, A. S, P. S. Herendeen, G. L. S. Merrill & P. R. Crane, 1997.]

Type: U.S.A. "Ca. 9.5 km southeast of Roberta, Georgia, at the south pit of the Atlanta Sand and Supply Company at Gaillard, Crawford County . . . (USGS Knoxville Quadrangle, lat. 32°37′47″N, long. 83°59′10′[sic]W)." *Collector not indicated PP44714*. Holotype: Department of Geology, Field Museum. Paratypes cited.

EPHEMERUM Hampe, 1837, conserved name.

Ephemerum furcatum Stone, J. Bryol. 19: 285. f. 5. 1996. [See Stone, I. G., 1996.]

Type: Australia. "Western Australia, Cane River area, south east [sic] of Onslow." *A. C. Beauglehole 14025*. Aug 18, 1965. Holotype: MEL.

ERPODIUM (Bridel) Bridel, 1827.

Erpodium abbreviatum (Mitten) Stone, J. Bryol. 19: 488. 1997. [See Stone, I. G., 1997a.]

Basionym: *Aulacopilum abbreviatum* Mitten, 1873.

Erpodium australiense Stone, J. Bryol. 12: 191. f. 1: a–j, 2: a–k. pl. 1. 1982.

Other use: *Erpodium coronatum* var. *australiense* (Stone) Stone, 1997.

Erpodium beccarii var. ***longicalyptratum*** Stone, J. Bryol. 19: 495. f. 4–5a–j, 6m. 1997. [See Stone, I. G., 1997a.]

Type: Australia. "Queensland, Mickeys Creek, Carnarvon Gorge National Park." *I. G. Stone 20430*. Aug 27, 1982. Holotype: MEL. Paratypes cited.

Erpodium coronatum var. ***australiense*** (Stone) Stone, J. Bryol. 19: 488. 1997. [See Stone, I. G., 1997a.]

Basionym: *Erpodium australiense* Stone, 1982.

Erpodium coronatum subsp. ***transvaaliense*** (Brotherus & H. A. Wager in Dixon) Magill in Magill & Rooy, Fl. S. Africa, Bryophyta 3: 453. 1998. [See Magill, R. E. & J. van Rooy, 1998.]

Basionym: *Erpodium transvaaliense* Brotherus & H. A. Wager in Dixon, 1920.

Erpodium glaucum (Wilson) Stone, J. Bryol. 19: 487. 1997. [See Stone, I. G., 1997a.]

Basionym: *Aulacopilum glaucum* Wilson, 1848.

Erpodium glaucum var. ***trichophyllum*** (Ångström in C. Müller) Stone, J. Bryol. 19: 487. 1997. [See Stone, I. G., 1997a.]

Basionym: *Aulacopilum trichophyllum* Ångström in C. Müller, 1862.

Erpodium noguchianum Stone, J. Bryol. 19: 488. 1997. [See Stone, I. G., 1997a.]

Replaced name: *Aulacopilum japonicum* Brotherus ex Cardot, 1909.

Blocking name: *Erpodium japonicum* Mitten, 1886.

Erpodium schaeferi (H. Crum) Stone, J. Bryol. 19: 488. 1997. [See Stone, I. G., 1997a.]

Basionym: *Aulacopilum schaeferi* H. Crum, 1988.

Erpodium solmsiellaceum (C. Müller & Brotherus) Stone, J. Bryol. 19: 487. 1997. [See Stone, I. G., 1997a.]

Basionym: *Wildia solmsiellacea* C. Müller & Brotherus, 1891.

Erpodium transvaaliense Brotherus & H. A. Wager in Dixon, Trans. Roy. Soc. South Africa 8: 208. 13. 1920.

Other use: *Erpodium coronatum* subsp. *transvaaliense* (Brotherus & H. A. Wager in Dixon) Magill in Magill & Rooy, 1998.

EUCAMPTODON Montagne, 1845.

Eucamptodon scalarirete (Dixon) B. C. Tan, H. P. Ramsay & W. B. Schofield, Austral. Syst. Bot. 9: 323. 1996. [See Tan, B. C., H. P. Ramsay & W. B. Schofield, 1996.]
Basionym: *Acroporium scalarirete* Dixon, 1941.

EURHYNCHIELLA Fleischer, 1923.

Eurhynchiella acanthophylla var. ***robusta*** (Thériot) Ochyra, Fragm. Florist. Geobot. 42: 579. 1997. [See Ochyra, R., 1997d.]
Basionym: *Rhynchostegiella acanthophylla* var. *robusta* Thériot.

EURHYNCHIUM Bruch & W. P. Schimper in B.S.G., 1854.

Eurhynchium altaicum Ignatov, Arctoa 7: 141. f. 37–38. 1998. [See Ignatov, M. S., 1998.]
Type: Russia. "Altai, Distr. Smeinogorsk, pr. fl. Malaja Belaja, in abigno." *B. Keller s.n.* Jul 16, 1910. Holotype: H-Brotherus.

Eurhynchium jovet-astiae (Bizot) Ochyra, Fragm. Florist. Geobot. 42: 583. 1997. [See Ochyra, R., 1997c.]
Basionym: *Rhynchostegium jovet-astiae* Bizot, 1973.

Eurhynchium peyronelii (Tosco & Piovano) Ochyra, Fragm. Florist. Geobot. 42: 583. 1997. [See Ochyra, R., 1997c.]
Basionym: *Oxyrrhynchium peyroneiii* Tosco & Piovano, 1956.

FALLACIELLA H. Crum, 1991.

Note: Tangney's republication, J. Hattori Bot. Lab. 81: 148. 1997, is redundant.

Fallaciella gracilis H. Crum, 1991.
Note: new name, based on adoption of previous epithet (Article 58.1, St. Louis Code); Tangney's republication, J. Hattori Bot. Lab. 81: 148. 1997, is redundant.

FISSIDENS Hedwig, 1801.

****Fissidens alonifolius*** Yano, Bol. Inst. Bot. (São Paulo) 10: 101. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

Fissidens bambergeri W. P. Schimper in Milde, Bot. Zeitung (Berlin) 22 (Beibl.): 12. 1864.
Other use: *Fissidens limbatus* var. *bamergeri* (W. P. Schimper in Milde) Düll, 1984.

Fissidens blechnoides Beever, J. Bryol. 19: 258. f. 1–3. 1996. [See Beever, J. E., 1996.]
Type: New Zealand. "South Island, Nelson District, Spooners Range, Golden Downs Forest, 41°28′S, 172°53′E . . . 480 m a.s.l." *J. E. Beever 84-98.* Dec 10, 1995. Holotype: CHR; isotypes: AK, AKU, BM, CANB, G, HO, MEL, MELU, MO, NSW, NY, OTA, WELT. Paratypes cited.

Fissidens curvatus var. ***pachyloma*** (C. Müller) Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 158. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Basionym: *Fissidens pachyloma* C. Müller, 1864.

Fissidens epiphytus Allison, Trans. Roy. Soc. New Zealand 88: 10. 1960.
Other use: *Fissidens taylorii* var. *epiphytus* (Allison) Stone & Beever, 1996.

Fissidens gillianus Catcheside & Stone, J. Adelaide Bot. Gard. 11: 5. f. 3–4. 1988.
Other use: *Fissidens taylorii* var. *gillianus* (Catcheside & Stone) Stone in Stone & Beever, 1996.

Fissidens helictocaulos C. Müller, Bot. Zeitung (Berlin) 22: 341. 1864.
Other use: *Fissidens megalotis* subsp. *helictocaulos* (C. Müller) Bruggeman-Nannenga, 1997.

Fissidens hyophilus Mitten, Trans. & Proc. Roy. Soc. Victoria 19: 92. 1882.
Other use: *Fissidens oblongifolius* var. *hyophilus* (Mitten) Beever & Stone, 1998.

Fissidens hyophilus var. ***palmerstonensis*** Stone, J. Bryol. 18: 159. 1994.
Other use: *Fissidens oblongifolius* var. *palmerstonensis* (Stone) Beever & Stone, 1998.

Fissidens intralimbatus Ruthe, Hedwigia 9: 177. 1870.
Other use: *Fissidens viridulus* var. *intralimbatus* (Ruthe) Düll, 1984.

Fissidens jeffreyi Bizot ex Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 170. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Type: Seychelles. "Silhouette, ridge above the Passe." *Jeffrey, Mouliné & Zelia 793.* Holotype: K; isotype: PC.
Note: previously invalid, single element not cited as holotype (Article 37.3, St. Louis Code), in Bizot, Rev. Bryol. Lichénol. 40: 132. 1974.

Fissidens leptochaete Dusén, Ark. Bot. 6(8): 5. pl. 3, f. 7–9. 1906.
Other use: *Fissidens serratus* var. *leptochaete* (Dusén) Bruggeman-Nannenga & Pursell, 1995 [1996].

Fissidens limbatus var. ***bamergeri*** (W. P. Schimper in Milde) Düll, Bryol. Beitr. 4: 29. 1984. [See Düll, 1984.]
Basionym: *Fissidens bambergeri* W. P. Schimper in Milde, 1864.
Note: not in *Index of Mosses, 1963–1989.*

Fissidens macroglossus (Brotherus) Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 162. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Basionym: *Moenkemeyera macroglossa* Brotherus, 1931.

Fissidens megalotis subsp. ***helictocaulos*** (C. Müller) Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 163. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Basionym: *Fissidens helictocaulos* C. Müller, 1864.

****Fissidens minutifolius*** Yano, Bol. Inst. Bot. (São Paulo) 10: 103. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

Fissidens nigerianus Bizot ex Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 170. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Type: Nigeria. "On worm casts in deep shade in forest, 1700 ft., Garki Kurmi Abuja Prov., Minna." *Jones 886.* Holotype: PC.
Note: invalid, single element not cited as holotype (Article 37.3, St. Louis Code), in Bizot, Rev. Bryol. Lichénol. 40: 101. pl. 1: a. 1974.

Fissidens oblongifolius var. ***hyophilus*** (Mitten) Beever & Stone, New Zealand J. Bot. 36: 84. 1998. [See Beever, J. E. & I. G. Stone, 1998.]
Basionym: *Fissidens hyophilus* Mitten, 1882.

Fissidens oblongifolius var. ***palmerstonensis*** (Stone) Beever & Stone, New Zealand J. Bot. 36: 87. 1998. [See Beever, J. E. & I. G. Stone, 1998.]
Basionym: *Fissidens hyophilus* var. *palmerstonensis* Stone, 1994.

Fissidens pachyloma C. Müller, Bot. Zeitung (Berlin) 22: 341. 1864.
Other use: *Fissidens curvatus* var. *pachyloma* (C. Müller) Bruggeman-Nannenga, 1997.

Fissidens pseudoplumosus Bizot & Onraedt ex Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 170. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Type: Réunion. "Sentier du Tremblet, sur débris organiques." *Onraedt 9378.* Holotype: PC.
Note: invalid, single element not cited as holotype (Article 37.3, St. Louis Code), in Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 40: 109. pl. 4: a. 1974.

Fissidens saülensis Pursell & W. R. Buck, Brittonia 48: 27. f. 1. 1996. [See Pursell, R. A. & W. R. Buck, 1996.]
Type: French Guiana. "St.-Laurent du Maroni: Canton de Maripasoula, Commune de Saül, ca. 10 km ENE of Eaux Claires, along upper tributary of the Araye River, 3°40′N, 53°09′W, ca. 400 m; nonflooded moist forest on hill above stream, on bare soil, growing with *Fissidens prionodes* Mont." *Buck 25534.* Sep 5, 1994. Holotype: NY; isotypes: CAY, PAC. Paratype cited.

Fissidens sciophyllus fo. ***ulna*** (C. Müller) Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 167. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Basionym: *Conomitrium ulna* C. Müller, 1875.

Fissidens serratus var. ***leptochaete*** (Dusén) Bruggeman-Nannenga & Pursell, Lindbergia 20: 53. 1995 [1996].
Basionym: *Fissidens leptochaete* Dusén, 1906.

Fissidens subplanifrons Bizot & Onraedt ex Bruggeman-Nannenga, J. Hattori Bot. Lab. 81: 170. 1997. [See Bruggeman-Nannenga, M. A., 1997.]
Type: Mauritius. "Cascade de Black River. À la base d'un tronc de *Cyathea* dans le lit du torrent, 600 m." *Onraedt 248.* Holotype: PC.
Note: invalid, single element not cited as holotype (Article 37.3, St. Louis Code), in Bizot & Onraedt in Bizot, Rev. Bryol. Lichénol. 40: 109. pl. 4: a. 1974.

Fissidens taylorii var. ***epiphytus*** (Allison) Stone & Beever, J. Bryol. 19: 57. 1996. [See Stone, I. G. & J. E. Beever, 1996.]
Basionym: *Fissidens epiphytus* Allison, 1960.

Fissidens taylorii var. ***gillianus*** (Catcheside & Stone) Stone in Stone & Beever, J. Bryol. 19: 51. 1996. [See Stone, I. G. & J. E. Beever, 1996.]
Basionym: *Fissidens gillianus* Catcheside & Stone, 1988.

*__Fissidens uleanus__ Yano, Bol. Inst. Bot. (São Paulo) 10: 104. 1996, invalid, basionym not cited (Article 33.3, St. Louis Code), "*uleana*." [See Yano, O., 1996.]
__Fissidens viridulus__ var. __intralimbatus__ (Ruthe) Düll, Bryol. Beitr. 4: 32. 1984. [See Düll, 1984.]
Basionym: *Fissidens intralimbatus* Ruthe, 1870.
Note: not in *Index of Mosses, 1963–1989*.
*__Fissidens wainioi__ Yano, Bol. Inst. Bot. (São Paulo) 10: 104. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
*__Fissidens wainioi__ var. __leuconeura__ Yano, Bol. Inst. Bot. (São Paulo) 10: 104. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited. (Article 33.3, St. Louis Code).
*__Fissidens wainioi__ var. __mollis__ Yano, Bol. Inst. Bot. (São Paulo) 10: 105. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited. (Article 33.3, St. Louis Code).
GIRALDIELLA C. Müller, 1898.
*__Giraldiella luoae__ Luo Jian-xin & Wen Xue-sen, IAB Symp. 2000's Bryol., Abstr. 26. 1997. [See Luo, Jian-xin & Xue-sen Wen, 1997.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
*GLOBULINA (C. Müller) Brotherus, 1902.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
__Globulina peruviana__ R. S. Williams, Bull. Torrey Bot. Club 43: 325. pl. 17: f. 8–15. 1916.
Other use: *Saitobryum peruvianum* (R. S. Williams) Zander, 1997 [1998].
GOLLANIA Brotherus, 1908, conserved name.
__Gollania revoluta__ Higuchi in Higuchi & D. G. Long, Bull. Natl. Sci. Mus., Tokyo, B 22: 16. f. 1. 1996. [See Higuchi, M. & D. G. Long, 1996.]
Type: China. "Yunnan Province, Yulong Shan, Wo Tu Di, 3580 m, on wet limestone rocks by stream at limestone ravine on steep mountain slope." *Long 18950*. Holotype: E; isotypes: HIRO, KUN, TNS. Paratype cited.
GRADSTEINIA Ochyra, 1990.
__Gradsteinia torrenticola__ Ochyra, C. Schmidt & Bültmann, J. Bryol. 20: 403. f. 1. 1998. [See Ochyra, R., C. Schmidt & H. Bültmann, 1998.]
Type: Spain. "Canary Islands, S.W. Tenerife, Barranco del Infierno N.E. of Adeje, lat. ca. 28°17′N, long. 16°42′W; on more or less submerged rocks in waterfall, elev. ca. 400 m (UTM grid square 28RCS31)." *H. Bültmann s.n.* Apr 8, 1993. Holotype: KRAM; isotypes: B, MSUN, S.
GRIMMIA Hedwig, 1801.
__Grimmia__ subsect. __Donnianae__ Loeske, Biblioth. Bot. 101: 110. 1930.
Other use: *Grimmia* sect. *Donnianae* (Loeske) J. Muñoz, 1998.
__Grimmia__ sect. __Donnianae__ (Loeske) J. Muñoz, Ann. Missouri Bot. Gard. 85: 376. 1998. [See Muñoz, J., 1998b.]
Basionym: *Grimmia* subsect. *Donnianae* Loeske, 1930.
__Grimmia abscondita__ Cardot, Wiss. Erb. Schwed. Südpolar-Exp. 4(8): 107. 19. 1908.
Other use: *Schistidium absconditum* (Cardot) Ochyra, 1998.
__Grimmia alfredii__ R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 412. pl. 29, f. 9. 1895.
Other use: *Schistidium alfredii* (R. Brown ter) Ochyra, 1998.
__Grimmia antipodum__ C. Müller, Hedwigia 37: 165. 1898.
Other use: *Schistidium antipodum* (C. Müller) Ochyra, 1998.
__Grimmia apocarpa__ var. __grisea__ Nees, Hornschuch & Sturm, Bryol. Germ. 2: 91. 1827.
Other use: *Schistidium brunnescens* subsp. *griseum* (Nees, Hornschuch & Sturm) H. Blom, 1996.
__Grimmia apocarpa__ fo. __umbrosa__ J. E. Zetterstedt, Revis. Grimm. Scand. 53. 1861.
Other use: *Schistidium umbrosum* (J. E. Zetterstedt) H. Blom, 1996.
*__Grimmia aquatica__ R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 409. pl. 29, f. 1, 2. 1895.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Grimmia aquatica* (Bridel ex Schrader) C. Müller, 1849.
Other use: *Schistidium aquaticum* Ochyra, 1998.
*__Grimmia atricha__ C. Müller, Hedwigia 37: 162. 1898.
*illegitimate, later homonym (Article 53.1, St. Louis Code).

Earlier name: *Grimmia atricha* C. Müller & Kindberg in Macoun, 1892.
Correct name: *Grimmia readeri* Brotherus, 1902.
Other use: *Schistidium atrichum* Ochyra, 1998.

Grimmia beckettiana C. Müller, Hedwigia 37: 163. 1898.
Other use: *Schistidium beckettianum* (C. Müller) Ochyra, 1998.

Grimmia boschbergiana C. Müller, Hedwigia 38: 119. 1899.
Other use: *Schistidium boschbergianum* (C. Müller) Ochyra, 1998.

Grimmia caffra Rehman ex C. Müller, Hedwigia 38: 118. 1899.
Other use: *Schistidium caffrum* (Rehman ex C. Müller) Ochyra, 1998.

Grimmia calycina Herzog, Beih. Bot. Centralbl. 27(2): 354. 1910.
Other use: *Schistidium calycinum* (Herzog) Ochyra, 1998.

Grimmia chubutensis Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 26. 2: f. 6. 1923.
Other use: *Schistidium chubutense* (Cardot & Brotherus) Ochyra, 1998.

Grimmia coloradensis Austin, Bot. Gaz. 2: 109. 1877.
Other use: *Schistidium coloradense* (Austin) Ochyra, 1998.

Grimmia cupularis C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.
Other use: *Schistidium cupulare* (C. Müller) Ochyra, 1998.

Grimmia cyathiformis R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 411. pl. 29: f. 8. 1895.
Other use: *Schistidium cyathiforme* (R. Brown ter) Ochyra, 1998.

Grimmia defoliata C. Müller, Bot. Jahrb. Syst. 5: 81. 1883.
Other use: *Racomitrium kerguelense* Ochyra & Matteri, 1996.

Grimmia depilis C. Müller, Syn. Musc. Frond. 1: 778. 1849.
Other use: *Schistidium depile* (C. Müller) Ochyra, 1998.

Grimmia donatii Herzog & Thériot, Repert. Spec. Nov. Regni Veg. 41: 290. f. 236: e–n. 1937.
Other use: *Schistidium donatii* (Herzog & Thériot) Ochyra & Matteri, 1996.

Grimmia fallax Dusén, Rep. Princeton Univ. Exp. Patagonia, Botany 8: 77. f. 7. Pl. 8: 5–6. 1903.
Other use: *Schistidium fallax* (Dusén) Ochyra & Matteri, 1996.

Grimmia flexifolia Hampe, Linnaea 30: 632. 1860.
Other use: *Schistidium flexifolium* (Hampe) Ochyra, 1998.

Grimmia fuliginosa W. P. Schimper in C. Müller, Syn. Musc. Frond. 1: 778. 1849.
Other use: *Schistidium fuliginosum* (W. P. Schimper in C. Müller) Ochyra, 1998.

Grimmia genuflexa C. Müller, Bot. Jahrb. Syst. 5: 81. 1883.
Other use: *Racomitrium genuflexum* (C. Müller) Ochyra & Matteri, 1996.

****Grimmia gracilis*** R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 414. pl. 30: f. 14. 1895.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Grimmia gracilis* (Hedwig) Weber & D. Mohr, 1803.
Other use: *Schistidium canterburiense* Ochyra, 1998.

Grimmia gracillima E. B. Bartram, Bryologist 27: 72. f. 12. 1924.
Other use: *Schistidium gracillimum* (E. B. Bartram) Ochyra, 1998.

Grimmia hedwigiacea C. Müller, Hedwigia 37: 164. 1898.
Other use: *Schistidium hedwigiaceum* (C. Müller) Ochyra, 1998.

Grimmia insularis Mitten, J. Linn. Soc., Bot. 15: 73. 1876.
Other use: *Verrucidens insularis* (Mitten) Ochyra & Matteri, 1996.

Grimmia laingii R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 412. pl. 30: f. 13. 1895.
Other use: *Schistidium laingii* (R. Brown ter) Ochyra, 1998.

Grimmia macroperichaetialis Greven, Bryologist 101: 101. f. 1. 1998. [See Greven, H. C., 1998a.]
Type: Australia. "Victoria. Mt. Buller, summit, 1790 m." *Greven 35*. Mar 14, 1997. Holotype: CANB; isotypes: BM, MEL, MO. Other indicated distribution: Australia (ACT, New South Wales, Tasmania).

Grimmia macrotyla Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 26. 2 : f. 5. 1923.
Other use: *Schistidium macrotylum* (Cardot & Brotherus) Ochyra, 1998.

Grimmia maido Greven, Bryologist 99: 428. f. 1. 1996. [See Greven, H. C., 1996.]
Type: La Réunion. "View-point le Maïdo, at the end of RF8, along tail to Grand Béarne, alt. 2150 m." *H. C. Greven & S. N. Khoeblal 4000.1*. Jul 10, 1995. Holotype: L; isotypes: ALTA, MO, PRE. Paratypes cited.

Grimmia maorica Paris, Index Bryol. Suppl. 174. 1900.
Replaced name: *Grimmia saxatilis* R. Brown ter, 1895.
Blocking name: *Grimmia saxatilis* Mitten, 1869.
Other use: *Schistidium maoricum* (Paris) Ochyra, 1998.

Grimmia minimeperichaetialis R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 414. pl. 30: f. 15. 1895.
Other use: *Schistidium minimeperichaetiale* (R. Brown ter) Ochyra, 1998.

Grimmia minuta C. Müller, Bot. Jahrb. Syst. 5: 81. 1883.
Other use: *Racomitrium minutum* (C. Müller) Ochyra & Matteri, 1996.

Grimmia mitchellii R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 411. pl. 29: f. 7. 1895.
Other use: *Schistidium mitchellii* (R. Brown ter) Ochyra, 1998.

Grimmia mutica Hampe, Linnaea 30: 631. 1860.
Other use: *Schistidium australiense* Ochyra, 1998.

Grimmia oamaruense R. Brown ter, Trans. & Proc. New Zealand Inst. 35: 336. pl. 39: f. 27. 1903.
Other use: *Schistidium oamaruense* (R. Brown ter) Ochyra, 1998.

Grimmia occulta C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 314. 1890.
Other use: *Schistidium occultum* (C. Müller in Neumayer) Ochyra & Matteri, 1996.

Grimmia ochracea C. Müller, Bot. Jahrb. Syst. 5: 81. 1883.
Other use: *Racomitrium ochraceum* (C. Müller) Ochyra & Matteri, 1996.

Grimmia ochyriana J. Muñoz, Nova Hedwigia 66: 235. f. 1–11. 1998. [See Muñoz, J., 1998a.]
Type: Nepal: "Près du camp de base, direction de Lobuje, 5100 m." *Zimmermann 558*. May 31, 1964. Holotype: G.

Grimmia oranica C. Müller, Hedwigia 38: 119. 1899.
Other use: *Schistidium oranicum* (C. Müller) Ochyra, 1998.

Grimmia pachyneurula C. Müller & Kindberg in Macoun, Cat. Canad. Pl., Musci 6: 65. 1892.
Other use: *Schistidium pachyneurulum* (C. Müller & Kindberg in Macoun) Ochyra, 1998.

Grimmia pacifica E. Lawton, Bryologist 82: 277. f. 1–5. 1979.
Other use: *Schistidium pacificum* (E. Lawton) Ochyra, 1998.

Grimmia perplexa Thériot, Revista Chilena Hist. Nat. 27: 11. f. 2. 1923.
Other use: *Schistidium perplexum* (Thériot) Ochyra, 1998.

Grimmia pitardii Corbière, Bull. Soc. Bot. France 56: LVI. 1909.
Other use: *Campylostelium pitardii* (Corbière) E. Maier, 1998.

Grimmia pseudorivularis Kindberg, Eur. N. Amer. Bryin. 2: 234. 1897.
Other use: *Schistidium pseudorivulare* (Kindberg) Ochyra, 1998.

Grimmia revisa R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 410. pl. 29: f. 5. 1895.
Other use: *Schistidium revisum* (R. Brown ter) Ochyra, 1998.

Grimmia rivulariopsis R. S. Williams, Bull. Torrey Bot. Club 43: 327. 19. 1916.
Other use: *Schistidium rivulariopsis* (R. S. Williams) Ochyra, 1998.

Grimmia robusta Nees & Hornschuch, Bryol. Germ. 2(1): 122. pl. 20: f. 9. 1827.
Other use: *Schistidium robustum* (Nees & Hornschuch) H. Blom, 1996.

Grimmia sanii Greven, Bryologist 99: 429. f. 2. 1996. [See Greven, H. C., 1996.]
Type: South Africa. "Drakensberg, Mount aux Sources, Crow's Nest, alt. 13050 m [sic!]." *Schelpe 2115*. Holotype: PRE; isotypes: MO (2 duplicates). Other indicated distribution: Lesotho.

Grimmia saxatilis Mitten, J. Linn. Soc., Bot. 12: 97. 1869.
Other use: *Schistidium saxatile* (Mitten) Ochyra, 1998.
Grimmia searellii R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 410. pl. 29: f. 3. 1895.
Other use: *Schistidium searellii* (R. Brown ter) Ochyra, 1998.
Grimmia serratomucronata C. Müller, Bot. Jahrb. Syst. 5: 80. 1883.
Other use: *Schistidium serratomucronatum* (C. Müller) Ochyra, 1998.
Grimmia sinensiapocarpa C. Müller, Nuovo Giorn. Bot. Ital., n.s. 5: 187. 1898.
Other use: *Schistidium sienesiapocarpum* (C. Müller) Ochyra, 1998.
Grimmia stirlingii C. Müller, Hedwigia 37: 163. 1898.
Other use: *Schistidium stirlingii* (C. Müller) Ochyra, 1998.
Grimmia subflexifolia C. Müller, Hedwigia 37: 164. 1898.
Other use: *Schistidium subflexifolium* (C. Müller) Ochyra, 1998.
Grimmia subincurva Austin, Bot. Gaz. 3: 31. 1878.
Other use: *Schistidium subincurvum* (Austin) Ochyra, 1998.
Grimmia torreyana Bridel, Bryol. Univ. 1: 172. 1826.
Other use: *Schistidium torreyanum* (Bridel) Ochyra, 1998.
Grimmia truncatoapocarpa C. Müller, Hedwigia 37: 103. 1898.
Other use: *Schistidium truncatoapocarpum* (C. Müller) Ochyra, 1998.
Grimmia turbinata R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 412. pl. 29: f. 10. 1895.
Other use: *Schistidium turbinatum* (R. Brown ter) Ochyra, 1998.
Grimmia urceolaris Schleicher ex Nees & Hornschuch, Bryol. Germ. 2: 121. pl 19: f. 8. 1827.
Other use: *Schistidium urceolare* (Schleicher ex Nees & Hornschuch) Ochyra, 1998.
Grimmia wilsonii Greven, J. Bryol. 20: 398. f. 1. 1998. [See Greven, H. C., 1998b.]
Type: New Zealand. "Southern Alps, Mt. Cook National Park, summit of Sebastopol, 4820 ft." *H. D. Wilson 3139.* Nov 18, 1972. Holotype: CHR. Paratypes cited.
****Grimmia wrightii*** R. Brown ter, Trans. & Proc. New Zealand Inst. 27: 413. pl. 30: f. 12. 1895.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Grimmia wrightii* (Sullivant in Sullivant & Lesquereux) Austin, 1875.
Other use: *Schistidium wrightii* Ochyra, 1998.
GUEMBELIA Hampe in C. Müller, 1846.
Guembelia lorentziana C. Müller, Linnaea 43: 450. 1882.
Other use: *Schistidium lorentziana* (C. Müller) Ochyra & Matteri, 1996.
GYMNOSTOMIELLA Fleischer, 1904.
Gymnostomiella erosulum (C. Müller ex Dusén) Arts, J. Bryol. 19: 76. 1996. [See Arts, T., 1996.]
Basionym: *Splachnobryum erosulum* C. Müller ex Dusén, 1896.
Gymnostomiella tenerum (C. Müller ex Dusén) Arts, J. Bryol. 19: 76. 1996. [See Arts, T., 1996.]
Basionym: *Splachnobryum tenerum* C. Müller ex Dusén, 1896.
Gymnostomiella vernicosa var. ***tenerum*** (C. Müller ex Dusén) Arts, J. Bryol. 20: 424. 1998. [See Arts, T., 1998.]
Basionym: *Splachnobryum tenerum* C. Müller ex Dusén, 1896.
GYMNOSTOMUM Nees & Hornschuch in Nees, Hornschuch & Sturm, 1823, conserved name.
Gymnostomum anoectangioides (C. Müller) Li Xing-jiang, Fl. Bryophyt. Sin. 2: 127. 1996.
Basionym: *Trichostomum anoectangioides* C. Müller, 1897.
Gymnostomum antarcticum Ångström, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 29(4): 3. 1872.
Other use: *Hennediella antarctica* (Ångström) Ochyra & Matteri, 1996.
Gymnostomum wimmerianum Sendtner, Flora 23: 59. 1840.
Other use: *Weissia controversa* var. *wimmeriana* (Sendtner) Blockeel & A. J. E. Smith, 1998.
HAPLOHYMENIUM Dozy & Molkenboer, Musci Frond. Ined. Archip. Ind. 127. 1846, conserved name.
Haplohymenium flagelliforme Savicz-Ljubitskaya, Bot. Mater. Inst. Sporov. Rast. Glavn. Bot. Sada RSFSR 1: 98, 101. 1922.

Other use: *Anomodon flagelliformis* (Savicz-Ljubitskaya) Granzow-de la Cerda, 1997.

HARRISONIA Sprengel, 1827.

Harrisonia cuspidatula C. Müller, Oesterr. Bot. Z. 47: 390. 1897.

Other use: *Rhacocarpus inermis* var. *cuspidatulus* (C. Müller) Frahm, 1996.

Harrisonia webbiana C. Müller, Oesterr. Bot. Z. 47: 392. 1897.

Other use: *Rhacocarpus rehmannianus* var. *webbianus* (C. Müller) Frahm, 1996.

HEBANTIA G. L. S. Merrill, J. Hattori Bot. Lab. 80: 247. 1996. [See Merrill, G. L. S., 1996.]

Original placement: Polytrichaceae.

Hebantia rigida (Lorentz) G. L. S. Merrill, J. Hattori Bot. Lab. 80: 247. 1996. [See Merrill, G. L. S., 1996.]

Basionym: *Atrichum rigidum* Lorentz, 1864.

HEDWIGIA Palisot de Beauvois, 1804, conserved name.

Hedwigia albicans var. ***detonsa*** M. A. Howe, Erythea 5: 91. 1897.

Other use: *Hedwigia detonsa* (M. A. Howe) W. R. Buck & Norris, 1996.

Hedwigia detonsa (M. A. Howe) W. R. Buck & Norris, Nova Hedwigia 62: 368. 1996. [See Buck, W. R. & D. H. Norris, 1996.]

Basionym: *Hedwigia albicans* var. *detonsa* M. A. Howe, 1897.

HELICODONTIUM (Mitten) Jaeger, 1878.

Helicodontium usagarum (Mitten) Lindau in Engler, Pflanzenw. Ost-Afrikas C: 76. 1895. [See Lindau, G., 1895.]

Basionym: *Hypnum usagarum* Mitten, 1886.

Note: not in *Index Muscorum*.

HENNEDIELLA Paris, 1896.

Hennediella antarctica (Ångström) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1006. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]

Basionym: *Gymnostomum antarcticum* Ångström, 1872.

HOLOMITRIUM Bridel, 1826, conserved orthography, "*Olomitrium*."

Holomitrium hawkinsii B. H. Allen, Novon 7(4): 329. f. 1. 1997 [1998]. [See Allen, B., 1997 [1998].]

Type: Honduras. "Lempira: Montaña de Cerlaque, summit Cerro Mojon, 13 km SW of Gracia, 2849 m, 14°32′N, 88°41′W." *Allen 12240*. Holotype: MO; isotypes: NY, TEFH, US. Other indicated distribution: Costa Rica, Panama.

HOMALIA Bridel, 1827, conserved orthography, "*Omalia*."

Homalia arcuata Bosch & Sande Lacoste, Bryol. Jav. 2: 56. pl. 176: B. 1862.

Other use: *Taxiphyllum arcuatum* (Bosch & Sande Lacoste) He Si, 1997.

HOMALOTHECIUM W. P. Schimper in B.S.G., 1851.

Homalothecium lutescens subsp. ***fulgescens*** (Mitten ex C. Müller) Heike Hofmann, Lindbergia 23: 133. 1998. [See Hofmann, H., 1998.]

Basionym: *Hypnum fulgescens* Mitten ex C. Müller, 1858.

Homalothecium nevadense subsp. ***aeneum*** (Mitten) Heike Hofmann, J. Bryol. 19: 481. 1997. [See Hofmann, H., 1997.]

Basionym: *Hypnum aeneum* Mitten, 1864.

HOOKERIA Smith, 1808, conserved name.

Hookeria lorentzii C. Müller, Linnaea 43: 474. 1882.

Other use: *Cyclodictyon lorentzii* (C. Müller) W. R. Buck & Schiavone, 1997.

HOOKERIOPSIS (Bescherelle) Jaeger, 1877.

Hookeriopsis stenodictyon Sehnem, Pesquisas, Bot. 33: 30. pl. 8: a. 1979.

Other use: *Thamniopsis stenodictyon* (Sehnem) Oliveira-e-Silva & Yano, 1998.

HYGROAMBLYSTEGIUM Loeske, 1903, conserved name.

Hygroamblystegium gangulianum Vohra, Bull. Bot. Surv. India 22: 115. f. 1–7. 1980 [1982].

Other use: *Brachythecium gangulianum* (Vohra) Ochyra, 1998.

HYGROHYPNUM Lindberg, 1872.

Hygrohypnum laevigatum (Herzog) Frahm, Cryptog. Bryol. Lichénol. 17: 63. 1996. [See Frahm, J.-P., 1996a.]

Basionym: *Rhacocarpus laevigatus* Herzog, 1925.

HYLOCOMIUM Bruch & W. P. Schimper in B.S.G., 1852, conserved name.

Hylocomium indicum Dixon, Notes Roy. Bot. Gard. Edinburgh 19: 299. f. 13. 1938.

Other use: *Pseudopleuropus indicus* (Dixon) Chiang Tzen-yuh, 1998.

HYMENOLOMA Dusén, 1905.

Hymenoloma subglobosum Herzog, Repert. Spec. Nov. Regni Veg. 41: 289. f. 236: a. 1937.

Other use: *Dicranoweisia subglobosa* (Herzog) He Si, 1998.

HYOPHILA Bridel, 1827, conserved name.
Hyophila stenophylla Cardot, Bull. Herb. Boissier, sér. 2, 8: 332. 1908.
Replaced name: *Hyophila angustifolia* Cardot, 1905.
Blocking name: *Hyophila angustifolia* Paris & Renauld, 1902.
Other use: *Trichostomum stenophyllum* (Cardot) Li Xing-jiang & Iwatsuki, 1996.
HYPNUM Hedwig, 1801, conserved name.
Hypnum sect. ***Orthotheciella*** C. Müller, Forschungsr. Gazelle, (Bot.) 4: 36. 1889.
Other use: *Orthotheciella* (C. Müller) Ochyra, 1998.
Hypnum aduncum var. ***tenue*** Turner, Muscol. Hibern. Spic. 189. 1804.
Other use: *Limprichtia revolvens* var. *tenuis* (Turner) Ochyra & Żarnowiec, 1997.
Hypnum aeneum Mitten, J. Proc. Linn. Soc., Bot. 8: 31. f. 5. 1864.
Other use: *Homalothecium nevadense* subsp. *aeneum* (Mitten) Heike Hofmann, 1997.
Hypnum austrostramineum C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 319. 1890.
Other use: *Warnstorfia austrostraminea* (C. Müller in Neumayer) Ochyra, 1996.
Hypnum austrostramineum var. ***gracillimum*** C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 319. 1890.
Other use: *Warnstorfia austrostraminea* var. *gracillima* (C. Müller in Neumayer) Ochyra, 1996.
Hypnum austrostramineum var. ***minus*** Cardot, Rev. Bryol. 33: 35. 1906.
Other use: *Warnstorfia austrostraminea* var. *minor* (Cardot) Ochyra, 1996.
Hypnum austrostramineum var. ***subfluitans*** C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 320. 1890.
Other use: *Warnstorfia austrostraminea* var. *subfluitans* (C. Müller in Neumayer) Ochyra, 1996.
Hypnum callichroum var. ***japonicum*** Ando, J. Hattori Bot. Lab. 82: 19. f. 1–2: A–E. 1997. [See Ando, H., 1997.]
Type: Japan. "Toyama-ken, Mt. Tateyama, Mimatsuzaka, 2150 m alt., on decayed wood." *H. Ando 15727*. Aug 11, 1953. Holotype: HIRO; isotype: PC. Paratypes cited.
Hypnum cardotii Thériot, Bot. Gaz. 30: 125. pl. 9: f. 4. 1900.
Other use: *Drepanocladus cardotii* (Thériot) Hedenäs, 1997.
Hypnum concavum W. J. Hooker in Kunth, Syn. Pl. 2: 63. 1822.
Other use: *Taxithelium concavum* (W. J. Hooker in Kunth) Spruce ex Florschütz-de Waard, 1996.
Hypnum congruens Hampe, Linnaea 30: 643. 1860.
Other use: *Rhaphidorrhynchium amoenum* (Hampe) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.
Hypnum falcifolium J. D. Hooker & Wilson, London J. Bot. 3: 554. 1844.
Other use: *Pseudotaxiphyllum falcifolium* (J. D. Hooker & Wilson) He Si, 1997.
Hypnum fulgescens Mitten ex C. Müller, Bot. Zeitung (Berlin) 16: 170. 1858.
Other use: *Homalothecium lutescens* subsp. *fulgescens* (Mitten ex C. Müller) Heike Hofmann, 1998.
Hypnum georgicouncinatum C. Müller in Neumayer, Int. Polarforsch., Deutsch. Exped. 2: 320. 1890.
Other use: *Sanionia georgicouncinata* (C. Müller in Neumayer) Ochyra, 1998.
Hypnum glaucocarpoides E. S. Salmon, J. Linn. Soc., Bot. 34: 471. pl. 17: f. 30–34. 1900.
Other use: *Campyliadelphus glaucocarpoides* (E. S. Salmon) Hedenäs, 1997.
Hypnum glaziovii Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 6: 174. 1875.
Other use: *Trichosteleum glaziovii* (Hampe) W. R. Buck, 1998.
Hypnum hispidulum Bridel, Muscol. Recent. Suppl. 2: 198. 1812.
Other use: *Campylophyllum hispidulum* (Bridel) Hedenäs, 1997.
Hypnum laculosum C. Müller, Flora 68: 425. 1885.
Other use: *Warnstorfia laculosa* (C. Müller) Ochyra & Matteri, 1997.
Hypnum leucocytus C. Müller, Syn. Musc. Frond. 2: 314. 1851.
Other use: *Warburgiella leucocytus* (C. Müller) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

Hypnum leucostomum Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 4, 1: 153. 1879.
Other use: *Sematophyllum leucostomum* (Hampe) W. R. Buck, 1998.

Hypnum microcladon Dozy & Molkenboer, Ann. Sci. Nat. Bot., sér. 3, 2: 308. 1844.
Other use: *Acroporium microcladum* (Dozy & Molkenboer) B. C. Tan in B. C. Tan, A. C. Church & Windadri, 1997.

†***Hypnum nordenskioeldii*** W. P. Schimper in Heer, Kongl. Svenska Vetenskapsakad. Handl. 8(7): 88. pl. 16: f. 72–75. 1870. [See Heer, O., 1870.]
Note: not in *Index Muscorum*.

Hypnum pulvinale Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 9–10: 271. 1878.
Other use: *Sematophyllum pulvinale* (Hampe) W. R. Buck, 1998.

****Hypnum rivicolum*** Yano, Bol. Inst. Bot. (São Paulo) 10: 109. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

Hypnum ruderale Bridel, Muscol. Recent. Suppl. 2: 158. 1812.
Other use: *Brachythecium ruderale* (Bridel) W. R. Buck, 1998.

Hypnum salleanum Bescherelle, Mém. Soc. Sci. Nat. Cherbourg 16: 253. 1872.
Other use: *Chryso-hypnum salleanum* (Bescherelle) W. R. Buck, 1998.

Hypnum saproxylophilum C. Müller, Syn. Musc. Frond. 2: 334. 1851.
Other use: *Trichosteleum saproxylophilum* (C. Müller) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

Hypnum sommerfeltii Myrin, Årsberätt. Bot. Arbeten Upptäckter 1831: 328. 1831.
Other use: *Campylophyllum sommerfeltii* (Myrin) Hedenäs, 1997.

Hypnum sordidum C. Müller, Bot. Zeitung (Berlin) 14: 457. 1856.
Other use: *Drepanocladus sordidus* (C. Müller) Hedenäs in W. R. Buck, 1998.

Hypnum teneriffae Montagne in Webb & Berthelot, Hist. Nat. Îles Canaries 11. Canar. 3(3): 3. 3: f. 1. 1839.
Other use: *Rhynchostegiella teneriffae* (Montagne in Webb & Berthelot) Dirkse & Bouman, 1995 [1996].

Hypnum usagarum Mitten, J. Linn. Soc., Bot. 22: 317. 1886.
Other use: *Helicodontium usagarum* (Mitten) Lindau, 1895.

HYPOPTERYGIUM Bridel, 1827.

Hypopterygium decolyi Brotherus ex Fleischer, Musci Buitenzorg 3: 1079. 1908.
Other use: *Dendrocyathophorum decolyi* (Brotherus ex Fleischer) Kruijer, 1995–96 [1996].

ISOTHECIUM Bridel, 1827.

Isothecium trichophorum Montagne, Ann. Sci. Nat. Bot., sér. 2, 19: 238. 1843.
Other use: *Barbellopsis trichophora* (Montagne) W. R. Buck, 1998.

LEMBOPHYLLUM Lindberg, 1872.

****Lembophyllum*** sect. ***Looseria*** (Thériot) Tangney, J. Hattori Bot. Lab. 81: 147. 1997. [See Tangney, R. S., 1997b.]
*superfluous, earlier name included (Article 52.2, St. Louis Code).
Basionym: *Weymouthia* subgen. *Looseria* Thériot, 1935.
Earlier name: *Camptochaete* sect. *Rigodiella* E. B. Bartram, 1946.

Lembophyllum orbiculatum (Thériot) Tangney, J. Hattori Bot. Lab. 81: 147. 1997. [See Tangney, R. S., 1997b.]
Basionym: *Weymouthia orbiculata* Thériot, 1934 [1935].

LEPIDOPILUM (Bridel) Bridel, 1827, conserved name.

Lepidopilum integrifolium Brotherus in Urban, Symb. Antill. 3: 427. 1903.
Other use: *Actinodontium integrifolium* (Brotherus in Urban) Churchill in W. R. Buck, 1998.

LEPTOHYMENIUM Schwägrichen, 1828, rejected against *Platygyrium*.

Leptohymenium sieboldii Dozy & Molkenboer, Ann. Sci. Nat. Bot., sér. 3, 2: 310. 1844.
Other use: *Anomodon sieboldii* (Dozy & Molkenboer) Granzow-de la Cerda, 1997.

LEPTOTRICHELLA (C. Müller) Lindberg, 1865.

Leptotrichella sect. ***Brachycarpae*** (Fleischer) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus* sect. *Brachycarpae* Fleischer, 1904.

Leptotrichella acutidentata (Tixier) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus acutidentatus* Tixier, 1966.

Leptotrichella afroëxigua (C. Müller ex Dusén) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella afroëxigua* C. Müller ex Dusén, 1896.

Leptotrichella alpina (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia alpina* C. Müller, 1897.

Leptotrichella ampullacea (C. Müller ex Dusén) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella ampullacea* C. Müller ex Dusén, 1896.

Leptotrichella annamensis (Paris & Brotherus) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus annamensis* Paris & Brotherus, 1907.

Leptotrichella apophysatula (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia apophysatula* C. Müller, 1898.

Leptotrichella assamica (Dixon) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus assamicus* Dixon, 1937.

Leptotrichella austroëxigua (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia austroëxigua* C. Müller, 1898.

Leptotrichella barbensis (Renauld & Cardot) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella barbensis* Renauld & Cardot, 1893.

Leptotrichella brasiliensis (Duby) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Weissia brasiliensis* Duby, 1836.

Leptotrichella congolensis (Renauld & Cardot) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus congolensis* Renauld & Cardot, 1900.

Leptotrichella crenulata (Brotherus) Ochyra, Fragm. Florist. Geobot. 42: 561. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella crenulata* Brotherus, 1900.

Leptotrichella densa (W. J. Hooker) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranum densum* W. J. Hooker, 1816.

Leptotrichella denticulata (Cardot & Potier de la Varde in Potier de la Varde) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella denticulata* Cardot & Potier de la Varde in Potier de la Varde, 1922.

Leptotrichella edentata (Mitten) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella edentata* Mitten, 1873.

Leptotrichella euchlora (Montagne) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranum euchlorum* Montagne, 1845.

Leptotrichella exigua (Schwägrichen) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Weissia exigua* Schwägrichen, 1827.

Leptotrichella filicaulis (Brotherus) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus filicaulis* Brotherus, 1927.

Leptotrichella flaccidula (Mitten) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Leptotrichum flaccidulum* Mitten, 1861.

Leptotrichella friedensis (Norris & T. Koponen) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus friedensis* Norris & T. Koponen, 1990.

Leptotrichella glauca (Bescherelle) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella glauca* Bescherelle, 1873.

Leptotrichella glauca var. ***minor*** (Brotherus) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]

Basionym: *Dicranella glauca* var. *minor* Brotherus, 1906.

Leptotrichella globicarpa (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria globicarpa* C. Müller, 1879.

Leptotrichella guadelupensis (Mitten) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella guadelupensis* Mitten, 1869.

Leptotrichella gymna (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia gymna* C. Müller, 1898.

Leptotrichella hillebrandii (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia hillebrandii* C. Müller, 1896.

Leptotrichella infuscata (Thwaites & Mitten) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella infuscata* Thwaites & Mitten, 1873.

Leptotrichella itatiaiae (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria itatiaiae* C. Müller, 1898.

Leptotrichella kunzeana (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Leptotrichum kunzeanum* C. Müller, 1847.

Leptotrichella lagunaria (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia lagunaria* C. Müller, 1897.

Leptotrichella leibergii (R. S. Williams) Ochyra, Fragm. Florist. Geobot. 42: 562. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella leibergii* R. S. Williams, 1915.

Leptotrichella ligulifolia (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia ligulifolia* C. Müller, 1886.

Leptotrichella lindigiana (Hampe) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria lindigiana* Hampe, 1865.

Leptotrichella linearifolia (Brotherus) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella longifolia* Brotherus, 1920.

Leptotrichella longirostris (Schwägrichen) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Trematodon longirostris* Schwägrichen, 1816.

Leptotrichella lutaria (Bescherelle) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus lutarius* Bescherelle, 1880.

Leptotrichella macrocarpa (Brotherus & Irmscher) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella macrocarpa* Brotherus & Irmscher, 1914.

Leptotrichella macromorpha (Fleischer) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus macromorphus* Fleischer, 1904.

Leptotrichella martiana (Hampe) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia martiana* Hampe, 1872.

Leptotrichella minuta (Hampe) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia minuta* Hampe, 1874.

Leptotrichella miqueliana var. ***longifolia*** (Baumgartner & J. Fröhlich) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus miquelianus* var. *longifolius* Baumgartner & J. Fröhlich, 1953.

Leptotrichella miqueliana var. ***rigescens*** (Fleischer) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus miquelianus* var. *rigescens* Fleischer, 1904.

Leptotrichella moenkemyeri (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria moenkemeyeri* C. Müller, 1886.

Leptotrichella muralis (Hampe) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia muralis* Hampe, 1865.

Leptotrichella nitidula (Mitten) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Leptotrichum nitidulum* Mitten, 1860.

Leptotrichella pallidiseta (Bridel) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Weissia pallidiseta* Bridel, 1819 [1818].

Leptotrichella paraguensis (Bescherelle) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus paraguensis* Bescherelle, 1891.

Leptotrichella picquenotii (Thériot & Corbière) Ochyra, Fragm. Florist. Geobot. 42: 563. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus picquenotii* Thériot & Corbière, 1934.

Leptotrichella pusilla (Hampe) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia pusilla* Hampe, 1865.

Leptotrichella rostrata (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria rostrata* C. Müller, 1879.

Leptotrichella rubriseta (E. B. Bartram) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus rubrisetus* E. B. Bartram, 1955.

Leptotrichella schmidii (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia schmidii* C. Müller, 1853.

Leptotrichella sinensis (Herzog) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus sinensis* Herzog, 1925.

Leptotrichella subangulata (Thwaites & Mitten) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella subangulata* Thwaites & Mitten, 1873.

Leptotrichella subnitidula (Thériot & Potier de la Varde) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus subnitidulus* Thériot & Potier de la Varde, 1925.

Leptotrichella sumatrana (Dixon) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella sumatrana* Dixon, 1932.

Leptotrichella tenax (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia tenax* C. Müller, 1898.

Leptotrichella tenax var. ***longipes*** (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia tenax* var. *longipes* C. Müller, 1898.

Leptotrichella tenuisetula (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Aongstroemia tenuisetula* C. Müller, 1898.

Leptotrichella torrentium (Thériot & Potier de la Varde) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Dicranella torrentium* Thériot & Potier de la Varde, 1917.

Leptotrichella tutuilae (Brotherus in Setchell) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus tutuilae* Brotherus in Setchell, 1924.

Leptotrichella ulei (C. Müller) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Seligeria ulei* C. Müller, 1898.

Leptotrichella yuennanensis (Gao Chien) Ochyra, Fragm. Florist. Geobot. 42: 564. 1997. [See Ochyra, R., 1997a.]
Basionym: *Microdus yuennanensis* Gao Chien, 1994.

LEPTOTRICHUM Hampe ex C. Müller, 1847.

Leptotrichum flaccidulum Mitten, Bonplandia (Hanover) 9: 365. 1861.
Other use: *Leptotrichella flaccidula* (Mitten) Ochyra, 1997.

Leptotrichum kunzeanum C. Müller, Bot. Zeitung (Berlin) 5: 806. 1847.
Other use: *Leptotrichella kunzeana* (C. Müller) Ochyra, 1997.
Leptotrichum nitidulum Mitten, Trans. Linn. Soc. London 23: 51 pl. 5: f. 1. 1860.
Other use: *Leptotrichella nitidula* (Mitten) Ochyra, 1997.
Leptotrichum praealtum Mitten, J. Proc. Linn. Soc., Bot. 4: 66. 1859.
Other use: *Platyneuron praealtum* (Mitten) Ochyra & Bednarek-Ochyra, 1997.
LESKEA Hedwig, 1801.
Leskea ambigua Schwägrichen, Sp. Musc. Frond., Suppl. 2(2)2: 165. pl. 198. 1827.
Other use: *Rhynchostegium ambiguum* (Schwägrichen) W. R. Buck, 1998.
Leskea tamariscina Hedwig, Sp. Musc. Frond. 212. pl. 51: f. 1–7. 1801.
Other use: *Canalohypopterygium tamariscinum* (Hedwig) Kruijer, 1995 [1996].
Leskea varia Hedwig, Sp. Musc. Frond. 216. pl. 53: f. 15–20. 1801.
Other use: *Orthotheciella varia* (Hedwig) Ochyra, 1998.
LEUCODON Schwägrichen, 1816.
Leucodon andrewsianus (H. Crum & L. E. Anderson) W. D. Reese & L. E. Anderson, Bryologist 100: 92. 1997. [See Reese, W. D. & L. E. Anderson, 1997.]
Basionym: *Leucodon brachypus* var. *andrewsianus* H. Crum & L. E. Anderson, 1972.
Leucodon brachypus var. ***andrewsianus*** H. Crum & L. E. Anderson, Bryologist 75: 101. 1972.
Other use: *Leucodon andrewsianus* (H. Crum & L. E. Anderson) W. D. Reese & L. E. Anderson, 1997.
Note: invalid, holotype not indicated (Article 37.1), in Bryologist 74: 373. 1971.
LEUCOLOMA Bridel, 1829, conserved name.
Leucoloma subsect. ***Acuminata*** La Farge-England, Bryologist 101: 207. 1998. [See La Farge-England, C., 1998.]
Type: Holotype: *Leucoloma tenerum* Mitten.
Leucoloma ser. ***Contorta*** La Farge-England, Bryologist 101: 207. 1998. [See La Farge-England, C., 1998.]
Type: Holotype: *Leucoloma tortellum* (Mitten) Jaeger.
Leucoloma subsect. ***Holomitrioidea*** Renauld, Prodr. Fl. Bryol. Madagascar 74. 1898.
Other use: *Leucoloma* ser. *Holomitrioidea* (Renauld) La Farge-England, 1998.
Leucoloma ser. ***Holomitrioidea*** (Renauld) La Farge-England, Bryologist 101: 207. 1998. [See La Farge-England, C., 1998.]
Basionym: *Leucoloma* subsect. *Holomitrioidea* Renauld, 1898.
Leucoloma subsect. ***Seriata*** La Farge-England, Bryologist 101: 206. 1998. [See La Farge-England, C., 1998.]
Type: Holotype: *Leucoloma sprengelianum* (C. Müller) Jaeger.
Leucoloma subsect. ***Serrata*** La Farge-England, Bryologist 101: 207. 1998. [See La Farge-England, C., 1998.]
Type: Holotype: *Leucoloma fuscifolium* Bescherelle.
Leucoloma ser. ***Teretia*** La Farge-England, Bryologist 101: 207. 1998. [See La Farge-England, C., 1998.]
Type: Holotype: *Leucoloma perviride* Brotherus.
****Leucoloma cameruniae*** La Farge-England, Bryologist 101: 203. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
****Leucoloma chrysobasilare*** subsp. ***africana*** La Farge-England, Bryologist 101: 203. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
****Leucoloma circinale*** La Farge-England, Bryologist 101: 203. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
****Leucoloma entabiense*** La Farge-England, Bryologist 101: 202. 1998. [See La Farge-England, C., 1998.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
****Leucoloma madagascariense*** La Farge-England, Bryologist 101: 204. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
****Leucoloma marojenziense*** La Farge-England, Bryologist 101: 203. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).

**Leucoloma membranaceum* La Farge-England, Bryologist 101: 204. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).
**Leucoloma ochrobasilare* subsp. *longifolium* La Farge-England, Bryologist 101: 204. 1998. [See La Farge-England, C., 1998.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Leucoloma onraedtii* La Farge-England, Bryologist 101: 202. 1998. [See La Farge-England, C., 1998.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Leucoloma zuluense* var. *ovatum* La Farge-England, Bryologist 101: 204. 1998. [See La Farge-England, C., 1998.]
*invalid, no Latin description (Article 36.1(c), St. Louis Code).

LIMPRICHTIA Loeske, 1907.
Limprichtia revolvens var. *tenuis* (Turner) Ochyra & Żarnowiec, Fragm. Florist. Geobot. 42: 573. 1997. [See Ochyra, R. & J. Żarnowiec, 1997.]
Basionym: *Hypnum aduncum* var. *tenue* Turner, 1804.

LINDBERGIA Kindberg, 1897.
Lindbergia pellicula (C. Müller) W. R. Buck & Schiavone, Bol. Soc. Argent. Bot. 32: 259. 1997. [See Buck, W. R. & M. M. Schiavone, 1997.]
Basionym: *Anomodon pellicula* C. Müller, 1897.

MACROMITRIUM Bridel, 1819 [1818].
Macromitrium cavaleriei Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906. [See Thériot, I., 1906.]
Type: China. "Kouy-Tchéou." *J. Cavalerie 833*. Nov 1902.
Note: not in *Index Muscorum*.
Macromitrium crosbyorum B. H. Allen & Vitt in B. H. Allen, Novon 8: 113. f. 1. 1998. [See Allen, B., 1998b.]
Type: Costa Rica. "San José: along Inter American Highway, ca. 10 km NW of summit at La Ascension, 9°37′N, 83°48′W." *Crosby & Crosby 6089*. Holotype: MO; isotypes: ALTA, CR, NY, US. Other indicated distribution: Panama.
Macromitrium echinatum B. H. Allen, Novon 8: 115. f. 2. 1998. [See Allen, B., 1998b.]
Type: Panama. "Bocas del Toro: vicinity of Fortuna Dam, 2.8 road-miles along pipeline road leaving Chiriquí Grande road at Continental Divide, 8°55′N, 82°08′W." *Allen 5655*. Holotype: MO; isotype: PMA. Paratypes cited.
Macromitrium frustratum B. H. Allen, Novon 8: 115. f. 3. 1998. [See Allen, B., 1998b.]
Type: Honduras. "Lempira: Montana de Celaque, summit of Cerro la Castilla, ca. 12 km SW of Gracias, 14°33′N, 88°41′W, on trunk of *Pinus*." *Allen 11542*. Holotype: MO; isotypes: DUKE, H, MICH, NY, TEFH, US.
Macromitrium papillosum Thériot in Herzog, Arch. Esc. Fárm. Fac. Ci. Méd. Córdoba 7: 50. 1938.
Other use: *Matteria papillosa* (Thériot in Herzog) Goffinet in Goffinet & Vitt, 1998.
Macromitrium picobonitum B. H. Allen, Novon 8: 118. f. 4. 1998. [See Allen, B., 1998b.]
Type: Honduras. "Atlántida: El Porvenir, Pico Bontio National Park, along trail at and above ridge camp, 15°38′N, 86°52′W." *Allen 17488*. Holotype: MO; isotype: TEFH. Paratype cited.
Macromitrium sejunctum B. H. Allen, Novon 8: 118. f. 5. 1998. [See Allen, B., 1998b.]
Type: Honduras. "Olancho: Sierra de Algalta, La Chorrerra below Montana Bibilonia, Río Lara, 15 km NNW of Catacamas, 14°59′N, 85°56′W." *Allen 12483*. Holotype: MO; isotypes: NY, TEFH. Paratype cited.
Macromitrium subincurvum Cardot & Thériot in Thériot, Bull. Acad. Int. Géogr. Bot. 16: 40. 1906. [See Thériot, I., 1906.]
Type: China. "Hong-Kong." *Em. Bodinier s.n.* Jan 17, 1893.
Note: not in *Index Muscorum*.

MASTOPOMA Cardot, 1901.
Mastopoma scabrifolium (Brotherus in H. A. Möller) B. C. Tan & Ninh, Acta Bot. Yunnan. 20: 272. 1998. [See Tan, B. C. & T. Ninh, 1998.]
Basionym: *Acanthocladium scabrifolium* Brotherus in H. A. Möller, 1919.

MATTERIA Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 154. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Type: Holotype: *Schlotheimia gracillima* Bescherelle, *M. gracillima* (Bescherelle) Goffinet in Goffinet & Vitt.
Original placement: Orthotrichaceae.
Matteria gracillima (Bescherelle) Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 154. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Basionym: *Schlotheimia gracillima* Bescherelle, 1885.
Matteria papillosa (Thériot in Herzog) Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 154. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Basionym: *Macromitrium papillosum* Thériot in Herzog, 1938.

MEIOTHECIELLA B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 215. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Type: Holotype: *Pterogoniella papillosa* Brotherus in Thériot, *M. papillosa* (Brotherus in Thériot) B. C. Tan, W. B. Schofield & H. P. Ramsay.
Original placement: Sematophyllaceae.
Meiotheciella papillosa (Brotherus in Thériot) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 216. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Pterogoniella papillosa* Brotherus in Thériot, 1904.

METEORIUM (Bridel) Dozy & Molkenboer, 1848.
Meteorium pseudoteres W. R. Buck, Mem. New York Bot. Gard. 82: 268. pl. 103: f. 10–17. 1998. [See Buck, W. R., 1998a.]
Type: Jamaica: "John Crow Peak, 5800–6000 ft., on trees." *L. M. Underwood 714*. Feb 2, 1903. Holotype: NY. Other indicated distribution: Cuba, Haiti (no paratypes cited).

MICRODUS W. P. Schimper ex Bescherelle, 1872.
Microdus sect. ***Brachycarpae*** Fleischer, Musci Buitenzorg 1: 284. 1904.
Other use: *Leptotrichella* sect. *Brachycarpae* (Fleischer) Ochyra, 1997.
Microdus acutidentatus Tixier, Rev. Bryol. Lichénol. 34: 129. f. 2. 1966.
Other use: *Leptotrichella acutidentata* (Tixier) Ochyra, 1997.
Microdus annamensis Paris & Brotherus, Rev. Bryol. 34: 41. 1907.
Other use: *Leptotrichella annamensis* (Paris & Brotherus) Ochyra, 1997.
Microdus assamicus Dixon, J. Bombay Nat. Hist. Soc. 39: 773. 1937.
Other use: *Leptotrichella assamica* (Dixon) Ochyra, 1997.
Microdus congolensis Renauld & Cardot, Bull. Soc. Roy. Bot. Belgique 39(2): 106. 1900.
Other use: *Leptotrichella congolensis* (Renauld & Cardot) Ochyra, 1997.
Microdus filicaulis Brotherus, Bernice P. Bishop Mus. Bull. 40: 5. 1927.
Other use: *Leptotrichella* (Brotherus) Ochyra, 1997.
Microdus friedensis Norris & T. Koponen, Acta Bot. Fenn. 139: 11. 1990.
Other use: *Leptotrichella friedensis* (Norris & T. Koponen) Ochyra, 1997.
Microdus lutarius Bescherelle, Ann. Sci. Nat. Bot., sér. 6, 9: 304. 1880.
Other use: *Leptotrichella lutaria* (Bescherelle) Ochyra, 1997.
Microdus macromorphus Fleischer, Musci Buitenzorg 1: 287. f. 47. 1904.
Other use: *Leptotrichella macromorpha* (Fleischer) Ochyra, 1997.
Microdus miquelianus var. ***longifolius*** Baumgartner & J. Fröhlich, Ann. Naturhist. Mus. Wien 59: 69. 1953.
Other use: *Leptotrichella miqueliana* var. *longifolia* (Baumgartner & J. Fröhlich) Ochyra, 1997.
Microdus miquelianus var. ***rigescens*** Fleischer, Musci Buitenzorg 1: 287. 1904.
Other use: *Leptotrichella miqueliana* var. *rigescens* (Fleischer) Ochyra, 1997.
Microdus paraguensis Bescherelle, J. Bot. (Desvaux) 5: 145. 1891.
Other use: *Leptotrichella paraguensis* (Bescherelle) Ochyra, 1997.
Microdus picquenotii Thériot & Corbière, Ann. Bryol. 7: 157. 1934.
Other use: *Leptotrichella picquenotii* (Thériot & Corbière) Ochyra, 1997.
Microdus rubrisetus E. B. Bartram, Bull. Brit. Mus. (Nat. Hist.), Bot. 2: 52. 1955.
Other use: *Leptotrichella rubriseta* (E. B. Bartram) Ochyra, 1997.

Microdus sinensis Herzog, Hedwigia 65: 150. 1925.
Other use: *Leptotrichella sinensis* (Herzog) Ochyra, 1997.
Microdus subnitidulus Thériot & Potier de la Varde, Bull. Soc. Bot. France 72: 351. 1. 1925.
Other use: *Leptotrichella subnitidula* (Thériot & Potier de la Varde) Ochyra, 1997.
Microdus tutuilae Brotherus in Setchell, Publ. Carnegie Inst. Wash. 341: 130. 1924.
Other use: *Leptotrichella tutuilae* (Brotherus in Setchell) Ochyra, 1997.
Microdus yuennanensis Gao Chien, Fl. Bryophyt. Sin. 1: 131. 1994.
Replaced name: *Microdus laxiretis* Brotherus, 1929.
Blocking name: *Microdus laxiretis* (Renauld & Cardot) Paris, 1905.
Other use: *Leptotrichella yuennanensis* (Gao Chien) Ochyra, 1997.

MIEHEA Ochyra, 1989.
Miehea himalayana Ochyra, Nova Hedwigia 49: 324. f. 1–3. 1989.
Other use: *Pseudopleuropus himalayanus* (Ochyra) Chiang Tzen-yuh, 1998.

MIELICHHOFERIA Nees & Hornschuch, 1831.
Mielichhoferia aristata Herzog, Repert. Spec. Nov. Regni Veg. 45: 46. pl. 260: f. d–g. 1938. [See Herzog, 1938.]
Type: Peru. "Cordillera de Huayhuas, Yerupaja, ca. 4700 m." *Kinzl s.n.* Jul 1936.
Note: not in *Index Muscorum*.
Mielichhoferia novoguinensis E. B. Bartram, Contr. U.S. Natl. Herb. 37: 49. 1965.
Other use: *Schizymenium novoguineense* (E. B. Bartram) A. Eddy, 1996.
Mielichhoferia pleurogyna Montagne, Ann. Sci. Nat. Bot., sér. 3, 4: 117. 1845.
Other use: *Schizymenium pleurogynum* (Montagne) Matteri, 1998.

MNIUM Hedwig, 1801, conserved name.
Mnium orientale Wyatt, Odrzykoski & T. Koponen, Bryologist 100: 231. f. 4. 1997. [See Wyatt, R., I. J. Odrzydoski & T. Koponen, 1997.]
Type: Japan. "Honshu: Yamagata Pref., Mt. Azuma Range, between Namekawa-spa (S. of Toge) and Mt. Ligata. *Tsuga-Abies-Betula ermanii* woods, 1600–1750 m (middle oroboreal zone)." *Koponen 22399*. Aug 3, 1971. Holotype: H; isotypes: HIRO, NICH, TNS. Paratypes cited.

MOENKEMEYERA C. Müller, 1886.
Moenkemeyera macroglossa Brotherus, Mitt. Inst. Allg. Bot. Hamburg 8: 399. 1931.
Other use: *Fissidens macroglossus* (Brotherus) Bruggeman-Nannenga, 1997.

MYUROCLADA Bescherelle, 1893.
Myuroclada concinna var. ***gracilis*** Cardot, Bull. Soc. Bot. Genève, ser. 2, 3: 294. 1911.
Other use: *Myuroclada maximowiczii* var. *gracilis* (Cardot) Noguchi ex Hong & Ando, 1959.
Myuroclada maximowiczii var. ***gracilis*** (Cardot) Noguchi ex Hong & Ando, Theses Catholic Med. Coll. 3: 388. 1959. [See Hong, W. S. & H. Ando, 1959.]
Basionym: *Myuroclada concinna* var. *gracilis* Cardot, 1911.
Note: not in *Index Muscorum*.

NECKERA Hedwig, 1801, conserved name.
Neckera acutifolia Bridel, Bryol. Univ. 2: 757. 1827.
Other use: *Pterobryopsis acutifolium* (Bridel) Magill in Magill & Rooy, 1998.
Neckera denigricans Enroth, Hikobia 12: 1. f. 1. 1996. [See Enroth, J., 1996a.]
Type: Vietnam. "Vietnam boreo-occ., montes Hoang-Lien-Son, in rupibus marmoreis umbrosis supra opp. Sapa, 1800 m." *Pócs 2573/3*. Sep 27, 1963. Holotype: EGR.
Neckera hoehnelii C. Müller, Flora 73: 489. 1890.
Other use: *Pterobryopsis hoehnelii* (C. Müller) Magill in Magill & Rooy, 1998.
Neckera penduliramea C. Müller, Linnaea 38: 647. 1876.
Other use: *Thamnobryum pendulirameum* (C. Müller) He Si, 1997.
Neckera yunnanensis Enroth, Hikobia 12: 3. f. 2. 1996. [See Enroth, J., 1996a.]
Type: China. "Yünnan, prov. Yünnan bor.-occid.: In pluviisilvis mixtis calide temperatis prope vicum Bahan (Pehalo) ad fluvium Lu-djiang (Salween), 27°58′, ad lignum, ca. 2400–2600 m." *Handel-Mazzetti 9077*. Jun 24, 1916. Holotype: H-Broth.

OLIGOTRICHUM A. P. de Candolle in Lamarck & A. P. de Candolle, 1805, conserved name.
Oligotrichum glaciale C. C. Townsend, J. Bryol. 20: 52. f. 2. 1998. [See Townsend, C. C., 1998.]
Type: India. "Kashmir, at edge of melting snow below crags above the stream, Rasbal, altitude ca. 3800 m? [sic]."

Townsend 89/401. Aug 9, 1989. Holotype: E; isotype: herb. Townsend.

ONCOPHORUS (Bridel) Bridel, 1826.

Oncophorus fuegianus Cardot, Rev. Bryol. 27: 39. 1900.

Other use: *Symblepharis fuegiana* (Cardot) Ochyra & Matteri, 1996.

Oncophorus luteovirens E. B. Bartram in Roivainen, Ann. Bot. Soc. Zool.-Bot. Fenn. "Vanamo" 9(2): 32. 14. 1937.

Other use: *Symblepharis luteovirens* (E. B. Bartram in Roivainen) Ochyra & Matteri, 1996.

ORTHODONTIUM Schwägrichen, 1827.

****Orthodontium*** sect. ***Bilimbatum*** Zhang Da-cheng & Li Xing-jiang, Acta Bot. Yunnan. 18: 415. 1996. [See Zhang Da-cheng & Li Xing-jiang, 1996.]

*invalid, no Latin description (Article 36.1(c), St. Louis Code).

Orthodontium bilimbatum Zhang Da-cheng & Li Xing-jiang, Acta Bot. Yunnan. 18: 416. f. 1–2. 1996. [See Zhang Da-cheng & Li Xing-jiang, 1996.]

Type: China. "Yunnan Mt.: . . . Tianchi . . . Zhongdian Xian . . . alt. 3750 m." *Zhang D. C. 138*. Sep 20, 1994. Holotype: KUN, cited as "HKAS." Paratype cited.

ORTHOMITRIUM Lewinsky-Haapasaari & Crosby, Novon 6: 2. 1996. [See Lewinsky-Haapasaari, J. & M. R. Crosby, 1996.]

Type: Holotype: *O. tuberculatum* Lewinsky-Haapasaari & Crosby.

Original placement: Orthotrichaceae.

Orthomitrium schofieldii B. C. Tan & Jia Yu, J. Hattori Bot. Lab. 82: 313. f. 1–11. 1997. [See Tan, B. C. & Jia Yu, 1997.]

Type: China. Qinghai: "on branch above ground, Xiaolung-gou (Small Dragon Gorge) along Xiaoqi River, 4100 m elev., 25 km west of Nangqen town, Nangqen Co." *Tan 95-1616a*. Holotype: FH; isotypes: BM, H, KUN, NY, PE.

Orthomitrium tuberculatum

Lewinsky-Haapasaari & Crosby, Novon 6: 2. f. 1–2. 1996. [See Lewinsky-Haapasaari, J. & M. R. Crosby, 1996.]

Type: China. "Guizhou: Sui-yan Co., Kuan Kuo Shui Forest Reserve, Tai Yan Shan (Sun Summit) and vicinity, on tree." *Crosby 16040*. Holotype: MO.

ORTHOTHECIELLA (C. Müller) Ochyra, Moss Fl. King George Island Antarctica 224. 1998. [See Ochyra, R., 1998b.]

Basionym: *Hypnum* sect. *Orthotheciella* C. Müller, 1889.

Type: Holotype: *Leskea varia* Hedwig, *O. varia* (Hedwig) Ochyra.

Original placement: Amblystegiaceae.

Orthotheciella varia (Hedwig) Ochyra, Moss Fl. King George Island Antarctica 224. 1998. [See Ochyra, R., 1998b.]

Basionym: *Leskea varia* Hedwig, 1801.

ORTHOTRICHACEAE Arnott, 1825.

Orthotrichaceae trib. Schlotheimieae Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 154. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]

Type: Holotype: *Schlotheimia* Bridel.

Orthotrichaceae trib. Zygodonteae (W. P. Schimper) Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 150. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]

Basionym: Zygodontaceae W. P. Schimper, 1856.

ORTHOTRICHUM Hedwig, 1801.

Orthotrichum delavayi (Brotherus & Paris) Cao Tong in Cao Tong, Gao Chien & Wu Yu-huan, J. Hattori Bot. Lab. 84: 14. 1998. [See Cao Tong, Chien Gao & Yu-huan Wu, 1998.]

Basionym: *Racomitrium delavayi* Brotherus & Paris, 1908.

Note: invalid, basionym not cited (Article 33.3, St. Louis Code) in IAB Symp. 2000's Bryol. Abstr. 19. 1997.

Orthotrichum groenlandicum Berggren, Kongl. Svenska Vetensk. Acad. Handl. 13(8): 23. 1875.

Other use: *Orthotrichum pylaisii* fo. *groenlandicum* (Berggren) Hinneri, 1976.

Orthotrichum holmenii Lewinsky-Haapasaari, Bryologist 99: 1. f. 1–2. 1996. [See Lewinsky-Haapasaari, J., 1996.]

Type: Kazakhstan. "Alma Ata. Alma Ata Oblast, Alma Ata Wilderness Preserve, Levii Talgar Valley, entrance to preserve. On shrub by stream, 1,200 m." *Allen 10729A*. Jul 17, 1991. Holotype: MO. Paratypes cited.

Orthotrichum lewinskyae F. Lara, Garilleti & Mazimpaka in Garilleti, F. Lara & Mazimpaka, J. Bryol. 19: 457. f. 1–16. 1997. [See Garilleti, R., F. Lara & V. Mazimpaka, 1997.]

Type: Morocco. "Azrou, 'Cèdre Gouraud' cedar wood, 1700 m a.s.l., on trunk of *Ilex aquifolium* L." *B. Albertos, R. Garilleti, F. Lara & M. Vergara s.n.* Apr 2, 1994. Holotype: MA. Paratypes cited.

Orthotrichum microblephare W. P. Schimper, Musci Eur. Nov. 1–2 Mon. 2. 3. 1864.

Other use: *Orthotrichum pylaisii* var. *microblephare* (W. P. Schimper) Hinneri, 1976.

Orthotrichum notabile Lewinsky-Haapasaari, Lindbergia 20: 102. f. 1–2. 1995–1996 [1996]. [See Lewinsky-Haapasaari, 1995–1996 [1996].]

Type: China. "Sichuan, Hongyuan County, km 22 Wagen to Mewa Hwy., north facing severely cut *Picea* woods, 3400 m." *Allen 7061.* Sep 3, 1988. Holotype: MO.

Orthotrichum pumilum var. ***schimperi*** (Hammar) Hinneri, Ann. Univ. Turku., Ser. A, Biol.-Geogr. 58: 33. 1976. [See Hinneri, S., 1976.]

Basionym: *Orthotrichum schimperi* Hammar, 1852.

Note: not in *Index of Mosses, 1963–1989.*

Orthotrichum pylaisii fo. ***groenlandicum*** (Berggren) Hinneri, Ann. Univ. Turku., Ser. A, Biol.-Geogr. 58: 11. 1976. [See Hinneri, S., 1976.]

Basionym: *Orthotrichum groenlandicum* Berggren, 1875.

Note: not in *Index of Mosses, 1963–1989.*

Orthotrichum pylaisii var. ***microblephare*** (W. P. Schimper) Hinneri, Ann. Univ. Turku., Ser. A, Biol.-Geogr. 58: 12. 1976. [See Hinneri, S., 1976.]

Basionym: *Orthotrichum microblephare* W. P. Schimper, 1864.

Note: not in *Index of Mosses, 1963–1989.*

Orthotrichum schimperi Hammar, Monogr. Orthotrich. Ulot. Suec. 9. 1852.

Replaced name: *Orthotrichum pumilum* Dickson, 1801 [Oct].

Blocking name: *Orthotrichum pumilum* Swartz, 1801.

Other use: *Orthotrichum pumilum* var. *schimper* (Hammar) Hinneri, 1976.

Orthotrichum shevockii Lewinsky-Haapasaari & Norris, Bryologist 101: 435. f. 1–23. 1998. [See Lewinsky-Haapasaari, J., 1998.]

Type: U.S.A. "California. Kern Co., along California highway 178, 1.12 km east of Chimney Peak Road, north base of Scodie Mountains, 1150 m." *Shevock 13072.* Holotype: UBC; isotypes: ALTA, KUO. Paratypes cited.

Orthotrichum tortidontium F. Lara, Garilleti & Mazimpaka, Nova Hedwigia 63: 517. f. 1–17. 1996. [See Lara, F., R. Garilleti & V. Mazimpaka, 1996.]

Type: Morocco. "Azrou, *Cedrus atlantica* wood SE of Afenourir Lake, ca. 1900 m." *B. Albertos, R. Garilleti, F. Lara & M. Vergara s.n.* Apr 2, 1994. Holotype: MA; isotype: NY. Other indicated distribution: Spain.

OXYRRHYNCHIUM (W. P. Schimper in B.S.G.) Warnstorf, 1905.

Oxyrrhynchium peyronelii Tosco & Piovano, Allionia 4: 153. f. 27–28. 1956.

Other use: *Eurhynchium peyronelii* (Tosco & Piovano) Ochyra, 1997.

PAPILLIDIOPSIS (Brotherus in Engler & Prantl) W. R. Buck & B. C. Tan, 1989 [1990].

Papillidiopsis mahensis (Bescherelle) O'Shea, Trop. Bryol. 15: 81. 1998. [See O'Shea, B. J., 1998.]

Basionym: *Rhaphidostegium mahense* Bescherelle, 1880.

PARALEUCOBRYUM (Lindberg ex Limpricht) Loeske, 1907.

Paraleucobryum brasiliense Brotherus, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 259. 1926.

Other use: *Paraleucobryum longifolium* subsp. *brasiliense* (Brotherus) P. Müller & Frahm, 1987.

Paraleucobryum longifolium subsp. ***brasiliense*** (Brotherus) P. Müller & Frahm, Nova Hedwigia 45: 303. 1987. [See Müller, P. & J.-P. Frahm, 1987.]

Basionym: *Paraleucobryum brasiliense* Brotherus, 1926.

Note: not in *Index of Mosses, 1963–1989.*

PARARHACOCARPUS Frahm, Cryptog. Bot. 17: 63. 1996. [See Frahm, J.-P., 1996a.]

Type: Holotype: *Rhacocarpus patagonicus* Brotherus, *P. patagonicus* (Brotherus) Frahm.

Original placement: Incertae sedis.

Pararhacocarpus patagonicus (Brotherus) Frahm, Cryptog. Bryol. Lichénol. 17: 63. 1996. [See Frahm, J.-P., 1996a.]

Basionym: *Rhacocarpus patagonicus* Brotherus, 1905.

PHASCUM Hedwig, 1801.
Phascum palustre Bruch & W. P. Schimper, Mém. Soc. Hist. Nat. Strasbourg 2: 2. 1835.
Other use: *Cleistocarpidium palustre* (Bruch & W. P. Schimper) Ochyra & Bednarek-Ochyra, 1996.

***PHILIBERTIELLA** Cardot, Rev. Bryol. Lichénol. 41: 37. 1914.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Philibertella* Vail, 1897.
Correct name: *Austrophilibertiella* Ochyra, 1996.
Philibertiella ditrichoidea Cardot, Rev. Bryol. 41: 37. 1914.
Other use: *Austrophilibertiella ditrichoidea* (Cardot) Ochyra, 1996.
Philibertiella nitens Herzog, Rev. Bryol. Lichénol. 29: 195. f. 5a–d. 1960.
Other use: *Austrophilibertiella nitens* (Herzog) Ochyra, 1996.

PHILONOTIS Bridel, 1827.
Philonotis conostomoides Ochyra, Fragm. Florist. Geobot. 42: 557. 1997. [See Ochyra, R., 1997b.]
Replaced name: *Conostomum crassinervium* Potier de la Varde, 1955.
Blocking name: *Philonotis crassinervia* Brotherus & Paris, 1906.
Philonotis sikkimensis (Kabiersch) T. Koponen, J. Hattori Bot. Lab. 84: 25. 1998. [See Koponen, T., 1998.]
Basionym: *Bartramidula griffithiana* var. *sikkimensis* Kabiersch, 1937.
Note: basionym cited as "*Philonotis* . . . ."

PILOTRICHUM Palisot de Beauvois, 1804.
Pilotrichum lindigii Hampe, Ann. Sci. Nat. Bot., sér. 5, 5: 341. 1866.
Other use: *Porotrichodendron lindigii* (Hampe) W. R. Buck, 1998.

PLAGIOTHECIUM Bruch & W. P. Schimper in B.S.G., 1852.
Plagiothecium cavifolium var. ***imbricatum*** Ukrainskaya, Novosti Syst. Nizš. Rast. 31: 183. f. 4–7. 1996. [See Ukrainskaya, G. Ya., 1996.]
Type: Russia. "Prov. Chabarovsk, reservatum Chechtziri Magni ad decline boreale jugi Chechupr." *V. Ya. Czerdanzeva s.n.* Aug 14, 1981. Holotype: VLA. Paratypes cited.
Plagiothecium curvifolium var. ***hypnophyllum*** Ukrainskaya, Novosti Syst. Nizš. Rast. 31: 183. f. 12–14. 1996. [See Ukrainskaya, G. Ya., 1996.]
Type: Russia. "Prov. Mosquensis, distr. Krasnogorskensis, 2 km ad austro-occidentem a Krasnogorsk. Ad Betulam in silva." *Ignatov s.n.* Jul 28, 1986. Holotype: MHA. Paratypes cited.
Plagiothecium denticulatum fo. ***minima*** Ukrainskaya, Novosti Syst. Nizš. Rast. 31: 180. f. 1–3. 1996. [See Ukrainskaya, G. Ya., 1996.]
Type: Russia. "Bashkiria, distr. Salavatensis, ad pedes jugi Kara-tau, vicus Ossinovka, in silva mixta. 55°19′ lat. bor. 53°35′ long. orient." *Eh. Baisheva s.n.* Jul 30, 1993. Holotype: LE.
Plagiothecium denticulatum var. ***secundum*** Lindberg, Contr. Fl. Crypt. As. 278 [Ann. Soc. Sci. Fenn. 10:]. 1872.
Other use: *Plagiothecium laetum* var. *secundum* (Lindberg) Frisvoll et al., 1995.
Plagiothecium laetum fo. ***majus*** Ukrainskaya, Novosti Syst. Nizš. Rast. 31: 182. f. 8–11. 1996. [See Ukrainskaya, G. Ya., 1996.]
Type: Ukraine. "In viciniis Kioviae, hortisilva Sviatoshensis; ad basin trunci Betulae in pineto." *W. Virczenko s.n.* Aug 8, 1990. Holotype: KW.
Plagiothecium laetum var. ***secundum*** (Lindberg) Frisvoll et al., NINA 4: 95. 1995. [See Frisvoll, A. A., A. Elvebakk, K. I. Flatberg & R. H. Økland, 1995.]
Basionym: *Plagiothecium denticulatum* var. *secundum* Lindberg, 1872.
Note: not in *Index of Mosses, 1993–1995.*

PLATYNEURON (Cardot) Brotherus, 1924, "*Platyneurum.*"
Platyneuron praealtum (Mitten) Ochyra & Bednarek-Ochyra, Fragm. Florist. Geobot. 42: 569. 1997, "*Platyneurum.*" [See Ochyra, R. & H. Bednarek-Ochyra, 1997.]
Basionym: *Leptotrichum praealtum* Mitten, 1859.

PLEURIDIUM Rabenhorst, 1848, conserved name.
Pleuridium julaceum Bescherelle, J. Bot. (Desvaux) 12: 294. 1898.
Other use: *Astomiopsis julacea* (Bescherelle) K. L. Yip & Snider, 1998.

POHLIA Hedwig, 1801.
Pohlia looseri (Thériot) He Si, J. Hattori Bot. Lab. 85: 152. 1998. [See He, Si, 1998.]
Basionym: *Webera looseri* Thériot, 1935.
Pohlia magnifica (Herzog) He Si, J. Hattori Bot. Lab. 85: 152. 1998. [See He, Si, 1998.]
Basionym: *Webera magnifica* Herzog, 1954.

Note: invalid, basionym not cited (Article 33.3, St. Louis Code), in Wijk & Margadant ex Matteri, Transecta Bot. Patagonia Austral 285. 1985.

POLYTRICHADELPHUS (C. Müller) Mitten, 1859.

Polytrichadelphus archboldii var. ***kinabaluensis*** H. Akiyama, Yamaguchi & M. Mohamed, Acta Phytotax. Geobot. 49: 136. f. 1–21. 1998. [See Akiyama, H., T. Yamaguchi & M. Mohamed, 1998.]

Type: Malaysia. "Sabah, Mt. Kinabalu: en route from Laban Rata (3300 m) to the summit, bare soil in exposed sunny places along a trail, 3460 m alt." *Akiyama, Yamaguchi, Beyan & Tsubota 185.* Holotype: HYO; isotypes: BM, FH, HIRO, L, NY, herb. Kinabalu National Park, herb. Sabah University. Paratypes cited.

POROTHAMNIUM Fleischer, 1908.

Porothamnium frahmii Enroth, J. Bryol. 19: 34. f. 1. 1996. [See Enroth, J., 1996b.]

Type: Peru. "Department of San Martin, Province of Rioja, Strasse Chachapoyas–Moyobamba km 379, N-exponienter Bergregenwald mit Braumfarnen und Bromeliaceen, 2100 m." *Frahm et al. 671.* Sep 1, 1982. Holotype: H. Other indicated distribution: Colombia.

POROTRICHODENDRON Fleischer, 1908.

Porotrichodendron lindigii (Hampe) W. R. Buck, Mem. New York Bot. Gard. 82: 108. 1998. [See Buck, W. R., 1998a.]

Basionym: *Pilotrichum lindigii* Hampe, 1866.

POTTIA (Reichenbach) Fürnrohr, 1829, conserved name.

Pottia octoblepharis Jaeger, Ber. Thätigk. St. Gallischen Naturwiss. Ges. 1871–72: 343 [Gen. Sp. Musc. 1: 191]. 1873.

Replaced name: *Weissia octoblepharis* Spruce ex Mitten, 1869.

Blocking name: *Weissia octoblepharis* (Bridel) A. Roth, 1806.

Other use: *Zanderia octoblepharis* (Jaeger) Goffinet, 1997 [1998].

Pottia viridifolia Mitten, J. Bot. 9: 5. 1871.

Other use: *Tortula viridifolia* (Mitten) Blockeel & A. J. E. Smith, 1998.

POTTIOPSIS Blockeel & A. J. E. Smith, J. Bryol. 20: 65. 1998. [See Blockeel, T. L. & A. J. E. Smith, 1998.]

Type: Holotype: *Weissia caespitosa* Bruch ex Bridel, *P. caespitosa* (Bruch ex Bridel) Blockeel & A. J. Smith.

Original placement: Pottiaceae.

Pottiopsis caespitosa (Bruch in Bridel) Blockeel & A. J. E. Smith, J. Bryol. 20: 66. 1998. [See Blockeel, T. L. & A. J. E. Smith, 1998.]

Basionym: *Weissia caespitosa* Bruch in Bridel, 1827.

***PSEUDOLIGOTRICHUM** G. L. Smith ex A. Eddy, Handb. Males. Mosses 2: 248. n.d. [1990]. [See Eddy, A., n.d. [1990].]

*invalid, orthographical variant (Article 61.1, St. Louis Code).

Correct name: *Notoligotrichum* G. L. Smith, 1971.

****Pseudoligotrichum australe*** G. L. Smith ex A. Eddy, Handb. Males. Mosses 2: 248. n.d. [1990]. [See Eddy, A., n.d. [1990].]

*invalid, orthographical variant (Article 61.1, St. Louis Code).

Correct name: *Notoligotrichum australe* (J. D. Hooker & Wilson) G. L. Smith, 1971.

PSEUDOPLEUROPUS Takaki, 1955.

Pseudopleuropus himalayanus (Ochyra) Chiang Tzen-yuh, Bot. Bull. Acad. Sin. 39: 135. 1998. [See Chiang, Tzen-Yuh, 1998b.]

Basionym: *Miehea himalayana* Ochyra, 1989.

Pseudopleuropus indicus (Dixon) Chiang Tzen-yuh, Bot. Bull. Acad. Sin. 39: 135. 1998. [See Chiang, Tzen-Yuh, 1998b.]

Basionym: *Hylocomium indicum* Dixon, 1938.

PSEUDOSYMBLEPHARIS Brotherus, 1924.

Pseudosymblepharis bombayensis (C. Müller) P. Sollman in P. Sollman & Een, Trop. Bryol. 12: 2. 1996. [See Sollman, P. & G. Een, 1996.]

Basionym: *Trichostomum bombayense* C. Müller, 1851.

PSEUDOTAXIPHYLLUM Iwatsuki, 1987.

Pseudotaxiphyllum falcifolium (J. D. Hooker & Wilson) He Si, J. Hattori Bot. Lab. 81: 39. 1997. [See He, Si, 1997.]

Basionym: *Hypnum falcifolium* J. D. Hooker & Wilson, 1844.

PTEROBRYOPSIS Fleischer, 1905.

Pterobryopsis acutifolium (Bridel) Magill in Magill & Rooy, Fl. S. Africa, Bryophyta 3: 569. 1998. [See Magill, R. E. & J. van Rooy, 1998.]

Basionym: *Neckera acutifolia* Bridel, 1827.

Pterobryopsis hoehnelii (C. Müller) Magill in Magill & Rooy, Fl. S. Africa, Bryophyta 3: 567. 1998. [See Magill, R. E. & J. van Rooy, 1998.]

Basionym: *Neckera hoehnelii* C. Müller, 1890.

PTEROGONIELLA W. P. Schimper ex Brotherus, 1897.

Pterogoniella papillosa Brotherus in Thériot, Bull. Acad. Int. Géogr. Bot. 13: 85. f. 2. 1904.

Other use: *Meiotheciella papillosa* (Brotherus in Thériot) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

PTERYGONEURUM Juratzka, 1882, conserved orthography, "*Pterigoneurum*."

Pterygoneurum squamosum Segarra & Kürschner in Segarra et al., Nova Hedwigia 67: 511. f. 1–16. 1998. [See Segarra, J.-G., F. Puche, W. Frey & H. Kürschner, 1998.]

Type: Spain. "Alicante province [sic]: Jávea, 38°47′00″N, 00°10′40″E, Campo de Naranjos, borde camino." *J.-G. Segarra 3981*. Dec 1997. Holotype: VAB.

***PTERYGOPHYLLUM** Brotherus, 1925.

*illegitimate, later homonym (Article 53.1, St. Louis Code).

Pterygophyllum anomalum var. ***pallidum*** Cardot & Brotherus, Kongl. Svenska Vetensk. Acad. Handl. 63(10): 60. 1923.

Other use: *Achrophyllum anomalum* var. *pallidum* (Cardot & Brotherus) He Si, 1998.

PTYCHOMITRIOPSIS Dixon, 1931.

Ptychomitriopsis aloinoides Magill in Magill & Rooy, Fl. S. Africa, Bryophyta 3: 463. f. 130: 13–18. 1998. [See Magill, R. E. & J. van Rooy, 1998.]

Type: South Africa. "(Orange) Free State, north slope of Wonderkop between Rosendal and Marquard, 2827DA, on sandstone boulder, 1800 m." *van Rooy 439*. Holotype: MO; isotypes: BM, NY, PRE. Other indicated distribution: Namibia.

PTYCHOMITRIUM Fürnrohr, 1829, conserved orthography, "*Pthychomitrium*."

Ptychomitrum angusticarpum Schiavone & Biasuso, Lilloa 39: 103. f. 1. 1997. [See Schiavone, M. M. & A. B. Biasuso, 1997.]

Type: Argentina. "Departamento Chicligasta, Río Cochuna, 1700 m snm." *Schiavone & Biasuso 1142a*. Mar 30, 1992. Holotype: LIL. Other indicated distribution: Brazil.

PYLAISIA W. P. Schimper ex B.S.G., 1851, conserved orthography, "*Pylaisaea*."

Pylaisia curviramea Dixon, Rev. Bryol., n.s. 1: 186. 1928.

Other use: *Pylaisiella curviramea* (Dixon) Redfearn, B. C. Tan & He Si, 1996.

Pylaisia subimbricata Brotherus & Paris, Rev. Bryol. 36: 11. 1909.

Other use: *Pylaisiella subimbricata* (Brotherus & Paris) Redfearn, B. C. Tan & He Si, 1996.

PYLAISIELLA Kindberg ex Grout, 1896.

Pylaisiella curviramea (Dixon) Redfearn, B. C. Tan & He Si, J. Hattori Bot. Lab. 79: 290. 1996. [See Redfearn, P. L., Jr., B. C. Tan & S. He, 1996.]

Basionym: *Pylaisia curviramea* Dixon, 1928.

Pylaisiella subimbricata (Brotherus & Paris) Redfearn, B. C. Tan & He Si, J. Hattori Bot. Lab. 79: 290. 1996. [See Redfearn, P. L., Jr., B. C. Tan & S. He, 1996.]

Basionym: *Pylaisia subimbricata* Brotherus & Paris, 1909.

RACOMITRIUM Bridel, 1819 [1818].

Racomitrium subsect. ***Diaphana***

Bednarek-Ochyra & Ochyra, Fragm. Florist. Geobot. 41: 982. 1996. [See Bednarek-Ochyra, H. & R. Ochyra, 1996.]

Type: Holotype: *R. ptychophyllum* (Mitten in Lindsay) Mitten in J. D. Hooker.

Racomitrium subsect. ***Horrida***

Bednarek-Ochyra & Ochyra, Fragm. Florist. Geobot. 41: 982. 1996. [See Bednarek-Ochyra, H. & R. Ochyra, 1996.]

Type: Holotype: *R. curiosissimum* Bednarek-Ochyra & Ochyra.

Racomitrium curiosissimum

Bednarek-Ochyra & Ochyra, Fragm. Florist. Geobot. 41: 975. f. 1–63. 1996. [See Bednarek-Ochyra, H. & R. Ochyra, 1996.]

Type: New Zealand. "South Island. Banks of Peninsula, Kaituna Valley. At summit of Herbert Peak (3015 ft) in tussock grazed area with rock outcrops. lat. 43°41′S long. 172°44′E." *Vitt 10610*. Jan 21, 1973. Holotype: KRAM; isotype: H. Paratypes cited.

Racomitrium delavayi Brotherus & Paris, Rev. Bryol. 35: 126. 1908.

Other use: *Orthotrichum delavayi* (Brotherus & Paris) Cao Tong in Cao Tong, Gao Chien & Wu Yu-huan, 1998.

Racomitrium genuflexum (C. Müller) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1009. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]

Basionym: *Grimmia genuflexa* C. Müller, 1883.

Racomitrium kerguelense Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1009. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Replaced name: *Grimmia defoliata* C. Müller, 1883.
Blocking name: *Racomitrium defoliatum* Dixon, 1918.

Racomitrium minutum (C. Müller) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1009. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia minuta* C. Müller, 1883.

Racomitrium ochraceum (C. Müller) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1008. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia ochracea* C. Müller, 1883.

Racomitrium visnadiae W. R. Buck, Brittonia 49: 463. f. 1–7. 1997. [See Buck, W. R., 1997b.]
Type: Brazil. "Minas Gerais: Parque Nacional do Caparanó, along trail from Tronqueira to Terreirão, 20°26′S, 41°44′W, 1970–2350 m; moist, wooded thickets along Rio José Pedro; submerged in stream." *Buck 27020*. Oct 31, 1994.
Holotype: SP; isotypes: MO, NY, TRH.

RHACOCARPUS Lindberg, 1863.

Rhacocarpus inermis var. ***cuspidatulus*** (C. Müller) Frahm, Cryptog. Bryol. Lichénol. 17: 55. 1996. [See Frahm, J.-P., 1996a.]
Basionym: *Harrisonia cuspidatula* C. Müller, 1897.
Earlier name: *Harrisonia cuspidatula* var. *humilis* C. Müller, 1897.
Note: not illegitimate, superfluous and incorrect when published (Article 52.3, St. Louis Code); correct name in original context: *R. inermis* var. *humilis* (C. Müller) Paris.

Rhacocarpus inermis var. ***piliformis*** (Brotherus) Frahm, Cryptog. Bryol. Lichénol. 17: 55. 1996. [See Frahm, J.-P., 1996a.]
Basionym: *Rhacocarpus piliformis* Brotherus, 1891.

Rhacocarpus laevigatus Herzog, Repert. Spec. Nov. Regni Veg. 21: 32. 1925.
Other use: *Hygrohypnum laevigatum* (Herzog) Frahm, 1996.

Rhacocarpus patagonicus Brotherus, Bot. Not. 1905: 306. 1905.
Other use: *Pararhacocarpus patagonicus* (Brotherus) Frahm, 1996.

Rhacocarpus piliformis Brotherus, Acta Soc. Sci. Fenn. 19(5): 21. 1891.
Other use: *Rhacocarpus inermis* var. *piliformis* (Brotherus) Frahm, 1996.

Rhacocarpus rehmannianus var. ***webbianus*** (C. Müller) Frahm, Cryptog. Bryol. Lichénol. 17: 62. 1996. [See Frahm, J.-P., 1996a.]
Basionym: *Harrisonia webbiana* C. Müller, 1897.

RHACOPILOPSIS Renauld & Cardot, 1900.

****Rhacopilopsis brasiliensis*** Yano, Bol. Inst. Bot. (São Paulo) 10: 124. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

RHAPHIDORRHYNCHIUM Bescherelle ex Fleischer, 1923.

Rhaphidorrhynchium amoenum (Hampe) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 218. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Hypnum congruens* Hampe, 1860.

***RHAPHIDOSTEGIUM** (W. P. Schimper in B.S.G.) De Notaris, 1867.
*illegitimate, type of earlier name included (Article 52.1, St. Louis Code).
Correct name: *Sematophyllum* Mitten, 1864.

Rhaphidostegium amnigenum var. ***atrovirens*** Brotherus, Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr. 83: 343. 1924. [See Brotherus, V. F., 1924.]
Type: Brazil. "Sa. Catharina. Serra Geral; ad saxa cataractium fluminis Capivare." *Ule 491, 897*.
Other use: *Sematophyllum amnigenum* (Brotherus) Sehnem, 1978.
Note: not in *Index Muscorum*.

Rhaphidostegium mahense Bescherelle, Ann. Sci. Nat. Bot., sér. 6, 10: 308. 1880.
Other use: *Papillidiopsis mahensis* (Bescherelle) O'Shea, 1998.

Rhaphidostegium subfalcatulum Brotherus & Watts, Proc. Linn. Soc. New South Wales 40: 381. 1915.
Other use: *Trichosteleum subfalcatulum* (Brotherus & Watts) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

Rhaphidostegium wattsii Paris, Index Bryol. Suppl. 298. 1900.
Other use: *Trichosteleum wattsii* (Paris) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

RHAPHIDOSTICHUM Fleischer, 1923.
Rhaphidostichum subluxurians Dixon & Thériot, Rev. Bryol., n.s. 3: 48. 13. 1930.
Other use: *Acroporium subluxurians* (Dixon & Thériot) O'Shea, 1998.

RHODOBRYUM (W. P. Schimper) Limpricht, 1892, conserved name.
Rhodobryum albolimbatum Hampe, Linnaea 36: 517, 299. 1870.
Other use: *Rosulabryum albolimbatum* (Hampe) Spence, 1996.
Rhodobryum subfasciculatum Hampe, Linnaea 40: 312. 1876.
Other use: *Rosulabryum subfasciculatum* (Hampe) Spence, 1996, *Rosulabryum subtomentosum* (Hampe) Spence, 1996.
Rhodobryum subtomentosum Hampe, Linnaea 36: 516. 1870.
Other use: *Rosulabryum subtomentosum* (Hampe) Spence, 1996.

RHYNCHO-HYPNUM (Hampe) Hampe, 1878.
Rhyncho-hypnum warmingii Hampe, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn, ser. 3, 2: 292. 1870.
Other use: *Sematophyllum warmingii* (Hampe) W. R. Buck, 1998.

RHYNCHOSTEGIELLA (W. P. Schimper in B.S.G.) Limpricht, 1896, conserved name.
Rhynchostegiella acanthophylla var. ***robusta*** Thériot, Revista Chilena Hist. Nat. 21: 22. 1917.
Other use: *Eurhynchiella acanthophylla* var. *robusta* (Thériot) Ochyra, 1997.
Rhynchostegiella stellata E. B. Bartram, Bryologist 48: 123. 1945. [See Bartram, E. B., 1945.]
Type: New Guinea. "Matap, elev. 5000–6000 ft." *Mrs. Clemens 11297.9*. Holotype: MICH; isotype: herb. Bartram.
Note: not in *Index Muscorum*.
Rhynchostegiella teneriffae (Montagne in Webb & Berthelot) Dirkse & Bouman, Lindbergia 20: 112. 1995 [1996]. [See Dirkse, G. M. & A. C. Bouman, 1995 [1996].]
Basionym: *Hypnum teneriffae* Montagne in Webb & Berthelot, 1839.
Rhynchostegiella trichophylla Dirkse & Bouman, Lindbergia 20: 110. f. 1–2. 1995 [1996]. [See Dirkse, G. M. & A. C. Bouman, 1995 [1996].]
Type: Spain. Canary Islands: "Tenerife, Mont. de las Mercedes, near the Llano de los Viejos." *Dirkse RIN 003525*. Mar 23, 1985. Holotype: L. Paratypes cited.

RHYNCHOSTEGIUM Bruch & W. P. Schimper in B.S.G., 1852.
Rhynchostegium ambiguum (Schwägrichen) W. R. Buck, Mem. New York Bot. Gard. 82: 355. 1998. [See Buck, W. R., 1998a.]
Basionym: *Leskea ambigua* Schwägrichen, 1827.
Rhynchostegium jovet-astiae Bizot, Acta Bot. Acad. Sci. Hung. 18: 25. f. 10: 1–7. 1973.
Other use: *Eurhynchium jovet-astiae* (Bizot) Ochyra, 1997.

ROSULABRYUM Spence, Bryologist 99: 222. 1996. [See Spence, J. R., 1996.]
Type: Holotype: *Bryum albolimbatum* Hampe, *R. albolimbatum* (Hampe) Spence.
Original placement: Bryaceae.
Rosulabryum albolimbatum (Hampe) Spence, Bryologist 99: 223. 1996.
Basionym: *Rhodobryum albolimbatum* Hampe, 1870.
Rosulabryum billarderi (Schwägrichen) Spence, Bryologist 99: 223. 1996, "*billardierei*." [See Spence, J. R., 1996.]
Basionym: *Bryum billarderi* Schwägrichen, 1816.
Rosulabryum campylothecium (Taylor) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum campylothecium* Taylor, 1846.
Rosulabryum capillare (Hedwig) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum capillare* Hedwig, 1801.
Rosulabryum leptothrix (C. Müller) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum leptothrix* C. Müller, 1898.
Rosulabryum microrhodon (C. Müller) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum microrhodon* C. Müller, 1898.
Rosulabryum subfasciculatum (Hampe) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Rhodobryum subfasciculatum* Hampe, 1876.
Rosulabryum subtomentosum (Hampe) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]

Basionym: *Rhodobryum subtomentosum* Hampe, 1870.
Note: basionym cited as "*Rhodobryum subfasciculatum* Hpe."

Rosulabryum torquescens (Bruch ex De Notaris) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum torquescens* Bruch ex De Notaris, 1838.

Rosulabryum tuberosum (Mohamed & Damanhuri) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum tuberosum* Mohamed & Damanhuri, 1990.

Rosulabryum wightii (Mitten) Spence, Bryologist 99: 223. 1996. [See Spence, J. R., 1996.]
Basionym: *Bryum wightii* Mitten, 1859.

SAITOBRYUM Zander, Bryologist 100: 520. 1997 [1998]. [See Zander, R. H., 1997 [1998].]
Replaced name: *Saitoella* Menzel, 1992.
Blocking name: *Saitoella* S. Goto, Sugiyama & Hamamoto & Komagata, 1987.

Saitobryum peruvianum (R. S. Williams) Zander, Bryologist 100: 520. 1997 [1998]. [See Zander, R. H., 1997 [1998].]
Basionym: *Globulina peruviana* R. S. Williams, 1916.

*SAITOELLA Menzel, J. Hattori Bot. Lab. 71: 239. 1992.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Earlier name: *Saitoella* S. Goto, Sugiyama & Hamamoto & Komagata, 1987.
Replaced name: *Saitoa* Zander, 1989.
Blocking name: *Saitoa* Rajendran & Muthappa, 1980.
Correct name: *Saitobryum* Zander, 1997 [1998].

SANIONIA Loeske, 1907.

Sanionia georgicouncinata (C. Müller in Neumayer) Ochyra, Moss Fl. King George Island Antarctica 227. 1998. [See Ochyra, R., 1998b.]
Basionym: *Hypnum georgicouncinatum* C. Müller in Neumayer, 1890.

SCHISTIDIUM Bruch & W. P. Schimper in B.S.G., Bryol. Eur. 3: 93 (fasc. 25–28 Monogr. 1). 1845, conserved name.

Schistidium absconditum (Cardot) Ochyra, Fragm. Florist. Geobot. 43: 104. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia abscondita* Cardot, 1908.

Schistidium alfredii (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 104. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia alfredii* R. Brown ter, 1895.

Schistidium antipodum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia antipodum* C. Müller, 1898.

Schistidium apocarpum var. ***boreale*** (Poelt) Düll, Bryol. Beitr. 4: 106. 1984. [See Düll, R., 1984.]
Basionym: *Schistidium boreale* Poelt, 1953.
Note: not in *Index of Mosses, 1963–1989*.

Schistidium apocarpum var. ***grande*** (Poelt) Düll, Bryol. Beitr. 4: 107. 1984. [See Düll, 1984.]
Basionym: *Schistidium grande* Poelt, 1955.
Note: not in *Index of Mosses, 1963–1989*.

Schistidium aquaticum Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Note: new name, based on adoption of previous epithet (Article 58.1, St. Louis Code).
Replaced name: *Grimmia aquatica* R. Brown ter, 1895.
Blocking name: *Grimmia aquatica* (Bridel ex Schrader) C. Müller, 1849.

*_Schistidium atrichum_ Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
*illegitimate, later homonym (Article 53.1, St. Louis Code) and type of earlier name, *Grimmia readeri* Brotherus (1902), included (Article 52.1, St. Louis Code).
Earlier name: *Schistidium atrichum* (C. Müller & Kindberg in Macoun) W. A. Weber, 1976.
Replaced name: *Grimmia atricha* C. Müller, 1898.

Schistidium australiense Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Replaced name: *Grimmia mutica* Hampe, 1860.
Blocking name: *Schistidium muticum* (Schreber ex Hedwig) Mitten, 1851.

Schistidium beckettianum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia beckettiana* C. Müller, 1898.

Schistidium boreale Poelt, Svensk Bot. Tidskr. 47: 256. f. 1: b, e. 1953.
Other use: *Schistidium apocarpum* var. *boreale* (Poelt) Düll, 1984.

Schistidium boschbergianum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia boschbergiana* C. Müller, 1899.

Schistidium brunnescens subsp. ***griseum*** (Nees, Hornschuch & Sturm) H. Blom, Bryophyt. Biblioth. 49: 218. 1996. [See Blom, H. H., 1996.]
Basionym: *Grimmia apocarpa* var. *grisea* Nees, Hornschuch & Sturm, 1827.

Schistidium caffrum (Rehman ex C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia caffra* Rehman ex C. Müller, 1899.

Schistidium calycinum (Herzog) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia calycina* Herzog, 1910.

Schistidium canterburiense Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Replaced name: *Grimmia gracilis* R. Brown ter, 1895.
Blocking name: *Schistidium gracile* (Röhling) Limpricht, 1889.

Schistidium chubutense (Cardot & Brotherus) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia chubutensis* Cardot & Brotherus, 1923.

Schistidium coloradense (Austin) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia coloradensis* Austin, 1877.

Schistidium confusum H. Blom, Bryophyt. Biblioth. 49: 82. f. 22. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Buskerud: Nedre Eiker, Konnerund, N of Ormetjern, ca. 365 m Kbl [= map sheet] 1814 III (M 711), UTM: NM 606 215." *Hans H. Blom 3449*. May 26, 1986. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Austria, Czech Republic, Estonia, Finland, Germany, Latvia, Poland, Sweden, Switzerland.

Schistidium crassipilum H. Blom, Bryophyt. Biblioth. 49: 224. f. 90. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Hordaland: Os, Lepsøy, Sandeidet, E end, 5 m. Kbl. [= map sheet] Ulven (M 816), UTM: LM 003 743." *Hans H. Blom 2531*. Dec 1985. Holotype: TRH; isotypes: FH, G, LE. Other indicated distribution: Asia Minor, Canada, Europe.

Schistidium cupulare (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia cupularis* C. Müller, 1883.

Schistidium cyathiforme (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia cyathiformis* R. Brown ter, 1895.

Schistidium depile (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia depilis* C. Müller, 1849.

Schistidium donatii (Herzog & Thériot) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1008. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia donatii* Herzog & Thériot, 1937.

Schistidium elegantulum H. Blom, Bryophyt. Biblioth. 49: 233. f. 93. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Hordaland: Fusa, Lygre, 10 m. Kbl. [= map sheet] 1215 III (M 711), UTM: LM 21.66." *Hans H. Blom 5494*. Apr 22, 1989. Holotype: TRH; isotypes: FH, G, LE. Other indicated distribution: Asia, Europe, Mexico.

Schistidium elegantulum subsp. ***wilsonii*** H. Blom, Bryophyt. Biblioth. 49: 239. f. 96. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Hordaland: Tysnes, skorpo, N of Laukhammar, 40 m. Kbl. [= map sheet] 1214 IV (M 711), UTM: LM 109 430." *Hans H. Blom 2753*. 25 Mar 1986. Holotype: TRH; isotypes: BCB, E, FH, G, LE, LISU. Other indicated distribution: Croatia, Faeroe Islands, Great Britain, Ireland, Portugal, Spain.

Schistidium fallax (Dusén) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1008. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia fallax* Dusén, 1903.

Schistidium flexicaule (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Barbula flexicaulis* C. Müller, 1899.

Schistidium flexifolium (Hampe) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia flexifolia* Hampe, 1860.

Schistidium frigidum H. Blom, Bryophyt. Biblioth. 49: 181. f. 70. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Svalbard: Billefjorden, SW, Rotundafjellet, ca. 300 m." *Arne A. Frisvoll s.n.* Aug 19, 1973. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Austria, Canada, Faeroe Islands, Finland, Great Britain, Greenland, Iceland, Russia, Sweden, Switzerland, U.S.A.

Schistidium frigidum var. ***havaasii*** H. Blom, Bryophyt. Biblioth. 49: 188. f. 73. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Sør-Trøndelag: Melhus, Kleivåsen, northernmost headland in river Gaula by railway tunnel, ca. 100 m. Kbl [= map sheet] 1621 III (M 711), UTM: NQ 63.94." *Hans H. Blom 5380.* May 14, 1988. Holotype: TRH; isotypes E, FH, LE. Other indicated distribution: Great Britain.

Schistidium frisvollianum H. Blom, Bryophyt. Biblioth. 49: 87. f. 25. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Svalbard, Brøggerfjellet, på toppen av Ryggen ved hd 566." *Arne A. Frisvoll s.n.* Jul 29, 1974. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Canada, Finland, Russia.

Schistidium fuliginosum (W. P. Schimper in C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 105. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia fuliginosa* W. P. Schimper in C. Müller, 1849.

Schistidium gracillimum (E. B. Bartram) Ochyra, Fragm. Florist. Geobot. 45: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia gracillima* E. B. Bartram, 1924.

Schistidium grande Poelt, Repert. Spec. Nov. Regni Veg. 58: 165. 1955.
Other use: *Schistidium apocarpum* var. *grande* (Poelt) Düll, 1984.

Schistidium grandirete H. Blom, Bryophyt. Biblioth. 49: 50. f. 7. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Svalbard: Dickson Land. Mellom Svenskehuset og Hagahytta, ca. 200 m." *Arne A. Frisvoll s.n.* Aug 20, 1973. Holotype: TRH; isotype: FH, LE. Other indicated distribution: Canada, Greenland, Russia, Sweden.

Schistidium hedwigiaceum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia hedwigiacea* C. Müller, 1898.

Schistidium laingii (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia laingii* R. Brown ter, 1895.

Schistidium lancifolium (Kindberg) H. Blom, Bryophyt. Biblioth. 49: 55. 1996. [See Blom, H. H., 1996.]
Basionym: *Grimmia pseudorivularis* subsp. *lancifolia* Kindberg, 1897.

Schistidium lorentziana (C. Müller) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1008. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Guembelia lorentzianum* C. Müller, 1882.

Schistidium macrotylum (Cardot & Brotherus) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia macrotyla* Cardot & Brotherus, 1923.

Schistidium maoricum (Paris) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia maorica* Paris, 1900.

Schistidium minimeperichaetiale (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia minimeperichaetialis* R. Brown ter, 1895.

Schistidium mitchellii (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia mitchellii* R. Brown ter, 1895.

Schistidium oamaruense (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia oamaruense* R. Brown ter, 1903.

Schistidium occultum (C. Müller in Neumayer) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1008. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia occulta* C. Müller in Neumayer, 1890.

Schistidium oranicum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia oranica* C. Müller, 1899.

Schistidium pachyneurulum (C. Müller & Kindberg in Macoun) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia pachyneurula* C. Müller & Kindberg in Macoun, 1892.

Schistidium pacificum (E. Lawton) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia pacifica* E. Lawton, 1979.

Schistidium perplexum (Thériot) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia perplexa* Thériot, 1923.

Schistidium poeltii H. Blom, Bryophyt. Biblioth. 49: 101. f. 31. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Oppland. Lom, Smådalen, Liaberget, S-side, 1170 m. Kbl. [= map sheet] 1618II (M 711), UTM: MP 93.45." *Hans S. Blom 5025*. Jul 17, 1987. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Canada, Greenland, Sweden.

Schistidium pseudorivulare (Kindberg) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia pseudorivularis* Kindberg, 1897.

Schistidium pulchrum H. Blom, Bryophyt. Biblioth. 49: 119. f. 41. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Sør-Trøndelag, Trondheim, Heimdal churchyard, 140 m. Kbl. [= map sheet] 1612 IV (M 711), UTM: NR 67.25." *Hans H. Blom 5585*. Apr, 13 1992. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Austria, Canada, Finland, Russia, Sweden, Switzerland, U.S.A., Ukraine.

Schistidium recurvum H. Blom, Bryophyt. Biblioth. 49: 144. f. 52. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Sør-Trøndelage: Oppdal, Vårstigen, 880 m. Kbl. [= map sheet] 1519 IV (M 711), UTM: NQ 32.13." *Hans H. Blom 5462*. Jun 4, 1989. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Canada, Finland, Kazakhstan, Sweden, U.S.A.

Schistidium revisum (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia revisa* R. Brown ter, 1895.

Schistidium rivulariopsis (R. S. Williams) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia rivulariopsis* R. S. Williams, 1916.

Schistidium robustum (Nees & Hornschuch) H. Blom, Bryophyt. Biblioth. 49: 149. 1996. [See Blom, H. H., 1996.]
Basionym: *Grimmia robusta* Nees & Hornschuch, 1827.

Schistidium saxatile (Mitten) Ochyra, Fragm. Florist. Geobot. 43: 106. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia saxatilis* Mitten, 1869.

Schistidium scandicum H. Blom, Bryophyt. Biblioth. 49: 157. f. 59. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Oppland: Lom, Laeshøi, S-side by Stymme, ca. 1000 m. Kbl. [= map sheet] 1618 IV (M 711), UTM: MP 78.54." *Hans H. Blom 4985*. Jul 16, 1987. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Sweden.

Schistidium searellii (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia searellii* R. Brown ter, 1895.

Schistidium serratomucronatum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia serratomucronata* C. Müller, 1883.

Schistidium sinensiapocarpum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia sinensiapocarpa* C. Müller, 1898.

Schistidium stirlingii (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia stirlingii* C. Müller, 1898.

Schistidium subflexifolium (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia subflexifolia* C. Müller, 1898.

Schistidium subincurvum (Austin) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia subincurva* Austin, 1878.

Schistidium subjulaceum H. Blom, Bryophyt. Biblioth. 49: 161. f. 61. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Sør-Trøndelag: Oppdal, Hesthågåbekken, by small waterfall, 790 m. Kbl. [= map sheet] 1519 IV (M 711), UTM: NQ 33.19." *Hans H. Blom 4808*. May 30, 1987. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Canada, Kazakhstan, Kirgiziya, Russia, Sweden.

Schistidium submuticum Zickendrath ex H. Blom, Bryophyt. Biblioth. 49: 250. f. 102. 1996. [See Blom, H. H., 1996.]
Type: Finland. "Helsingfors, observatorium, ad rup[.] calc." *Collector not indicated*. Apr, 11 '80. Holotype: H-SOL; isotypes: FH, LE. Other indicated distribution: Iceland, Latvia, Norway, Russia, Sweden.

Schistidium submuticum subsp. ***arcticum*** H. Blom, Bryophyt. Biblioth. 49: 255. f. 105. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Nordland: Rana, Virvassdalen, cliff above Gåstjern, 730 m. Kbl. [= map sheet] 2127 IV (M 711), UTM: WP 10.49." *Hans H. Blom 6008*. Aug 19, 1995. Holotype: TRH; isotypes: ALA, FH, LE. Other indicated distribution: Canada, Finland, Russia, Sweden.

Schistidium torreyanum (Bridel) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia torreyana* Bridel, 1826.

Schistidium trichodon var. ***nutans*** H. Blom, Bryophyt. Biblioth. 49: 70. f. 13. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Sør-Trøndelag: Bjugn, NW-end of Gjølgavatn, by the road near farm, 150 m. Kbl. 1552 (M 711), UTM: NR 491 732." *Hans H. Blom 4704*. May 16, 1987. Holotype: TRH; isotypes: FH, G, LE. Other indicated distribution: Austria, Belgium, Canada, China, Finland, Germany, India, Poland, Russia, Slovakia, Sweden, Switzerland, Ukraine, U.S.A.

Schistidium truncatoapocarpum (C. Müller) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia truncatoapocarpa* C. Müller, 1898.

Schistidium turbinatum (R. Brown ter) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia turbinata* R. Brown ter, 1895.

Schistidium umbrosum (J. E. Zetterstedt) H. Blom, Bryophyt. Biblioth. 49: 125. 1996. [See Blom, H. H., 1996.]
Basionym: *Grimmia apocarpa* fo. *umbrosa* J. E. Zetterstedt, 1861.

Schistidium urceolare (Schleicher ex Nees & Hornschuch) Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Basionym: *Grimmia urceolaris* Schleicher ex Nees & Hornschuch, 1827.

Schistidium venetum H. Blom, Bryophyt. Biblioth. 49: 192. f. 76. 1996. [See Blom, H. H., 1996.]
Type: Norway. "Oppland: Vang, NE of Homro, ca. 500 m. Kbl [= map sheet] 1517 II (M 711), UTM: MN 69.81–82." *Hans H. Blom 5132*. Jul 20, 1987. Holotype: TRH; isotypes: FH, LE. Other indicated distribution: Canada, Finland, Greenland, Iceland, Russia, Sweden.

Schistidium wrightii Ochyra, Fragm. Florist. Geobot. 43: 107. 1998. [See Ochyra, R., 1998a.]
Note: new name, based on adoption of previous epithet (Article 58.1, St. Louis Code).
Replaced name: *Grimmia wrightii* R. Brown ter, 1895.
Blocking name: *Grimmia wrightii* (Sullivant in Sullivant & Lesquereux) Austin, 1875.

SCHIZOMITRIUM W. P. Schimper in B.S.G., 1851, rejected against *Callicostella*.

****Schizomitrium apophysatum*** Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

**Schizomitrium asperum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium daltoniaecarpum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium glabratum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium irroratum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium limosum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium monofarium* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium mosenii* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium pellucidum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium sellowianum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium spuriopalldium* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
**Schizomitrium submicrocarpum* Yano, Bol. Inst. Bot. (São Paulo) 10: 126. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
SCHIZYMENIUM Harvey in W. J. Hooker, 1840.
Schizymenium novoguineense (E. B. Bartram) A. Eddy, Handb. Males. Mosses 3: 181. 1996. [See Eddy, A., 1996.]
Basionym: *Mielichhoferia novoguinensis* E. B. Bartram, 1965.
Schizymenium pleurogynum (Montagne) Matteri, Fragm. Florist. Geobot. 43: 299. 1998. [See Matteri, C. M., 1998.]
Basionym: *Mielichhoferia pleurogyna* Montagne, 1845.
SCHLOTHEIMIA Bridel, 1812.
Schlotheimia gracillima Bescherelle, Bull. Soc. Bot. France 32: lxi. 1885.
Other use: *Matteria gracillima* (Bescherelle) Goffinet in Goffinet & Vitt, 1998.
SCHOENOBRYUM Dozy & Molkenboer, 1848.
**Schoenobryum julaceum* Yano, Bol. Inst. Bot. (São Paulo) 10: 127. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).
SCHOFIELDIELLA W. R. Buck, J. Hattori Bot. Lab. 82: 39. 1997. [See Buck, W. R., 1997a.]
Type: Holotype: *Stereodon micans* Mitten, *S. micans* (Mitten) W. R. Buck.
Original placement: Hylocomiaceae.
Schofieldiella micans (Mitten) W. R. Buck, J. Hattori Bot. Lab. 82: 39. 1997. [See Buck, W. R., 1997a.]
Basionym: *Stereodon micans* Mitten, 1859.
SCLEROPODIOPSIS Ignatov, Arctoa 7: 149. 1998. [See Ignatov, M. S., 1998.]
Type: Holotype: *S. laxiretis* Ignatov.
Original placement: Brachytheciaceae.
Scleropodiopsis laxiretis Ignatov, Arctoa 7: 150. f. 43. 1998. [See Ignatov, M. S., 1998.]
Type: Russia. "Altai Mts., 51°29′N, 86°26′E, Karakol Lakes, 1900m, wet rocks in subalpine zone." *M. Ignatov & E. Ignatova 26/113*. Aug 2, 1991. Holotype: MHA.
SCLEROPODIUM Bruch & W. P. Schimper in B.S.G., 1853.
Scleropodium australe Hedenäs, Nova Hedwigia 62: 457. f. 1: A, F–I. 1996. [See Hedenäs, L., 1996a.]
Type: Australia. "Tasmania, road and creek behind Cascade Brewery, 42°53′S, 147°18′E." *A. V. Ratkovsky H372*. Feb 5, 1980. Holotype: CBG 8206591; isotypes: AD, CBG, HO, L.

SCORPIURIUM W. P. Schimper, 1876.
Scorpiurium cucullatum (Hampe) Hedenäs, Nova Hedwigia 62: 452. 1996. [See Hedenäs, L., 1996a.]
Basionym: *Hypnum cucullatifolium* Hampe, 1866.

SCOULERIA W. J. Hooker, 1829 [1830].
Scouleria aquatica var. ***pulcherrima*** (Brotherus) Kurbatova, Novosti Syst. Nizš. Rast. 32: 168. 1998. [See Kurbatova, L. E., 1998.]
Basionym: *Scouleria pulcherrima* Brotherus, 1916.
Scouleria pulcherrima Brotherus, Trudy Bot. Muz. Imp. Akad. Nauk 16: 24. pl. 2, f. 1, 4; 2. 1916.
Other use: *Scouleria aquatica* var. *pulcherrima* (Brotherus) Kurbatova, 1998.

SELIGERIA Bruch & W. P. Schimper in B.S.G., 1846.
Seligeria globicarpa C. Müller, Linnaea 42: 469. 1879.
Other use: *Leptotrichella globicarpa* (C. Müller) Ochyra, 1997.
Seligeria itatiaiae C. Müller, Bull. Herb. Boissier 6: 45. 1898.
Other use: *Leptotrichella itatiaiae* (C. Müller) Ochyra, 1997.
Seligeria lindigiana Hampe, Ann. Sci. Nat. Bot., sér. 5, 3: 353. 1865.
Other use: *Leptotrichella lindigiana* (Hampe) Ochyra, 1997.
Seligeria moenkemeyeri C. Müller, Flora 69: 508. 1886.
Other use: *Leptotrichella moenkemyeri* (C. Müller) Ochyra, 1997.
Seligeria rostrata C. Müller, Linnaea 42: 469. 1879.
Other use: *Leptotrichella rostrata* (C. Müller) Ochyra, 1997.
Seligeria ulei C. Müller, Bull. Herb. Boissier 6: 45. 1898.
Other use: *Leptotrichella ulei* (C. Müller) Ochyra, 1997.

SEMATOPHYLLUM Mitten, 1864.
Sematophyllum amnigenum var. ***atrovirens*** (Brotherus) Sehnem, Pesquisas, Bot. 32: 122. 1978. [See Sehnem, 1978.]
Basionym: *Rhaphidostegium amnigenum* var. *atrovirens* Brotherus, 1924.
Note: not in *Index of Mosses, 1963–1989*.
Sematophyllum fluminicola (C. Müller) W. R. Buck, Nova Hedwigia 66: 242. 1998. [See Buck, W. R., 1998b.]
Basionym: *Trismegistia fluminicola* C. Müller, 1901.
Sematophyllum leucostomum (Hampe) W. R. Buck, Nova Hedwigia 66: 242. 1998. [See Buck, W. R., 1998b.]
Basionym: *Hypnum leucostomum* Hampe, 1879.
Sematophyllum macrosporum Dixon & Sainsbury, Trans. & Proc. Roy. Soc. New Zealand 75: 183. 1945.
Other use: *Warburgiella macrospora* (Dixon & Sainsbury) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.
Sematophyllum pulvinale (Hampe) W. R. Buck, Nova Hedwigia 66: 242. 1998. [See Buck, W. R., 1998b.]
Basionym: *Hypnum pulvinale* Hampe, 1878.
Sematophyllum subhumile var. ***contiguum*** (Mitten) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 219. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Stereodon contiguus* Mitten, 1859.
Sematophyllum warmingii (Hampe) W. R. Buck, Nova Hedwigia 66: 242. 1998. [See Buck, W. R., 1998b.]
Basionym: *Rhyncho-hypnum warmingii* Hampe, 1870.

SPHAGNUM Linnaeus, 1753.
Sphagnum amoenoides H. Crum, Contr. Univ. Michigan Herb. 147. f. 1. 1997. [See Crum, H., 1997b.]
Type: Brazil. "São Paulo: Serra da Mantiqueira, Pindamonhangaba, Pico do Itapeva, ca. 6 km SE of Campos do Jordão, 22°46′S, 45°35′W, ca. 2000 m." *Buck 26422*. Oct 18, 1994. Holotype: MICH; isotype: NY.
Sphagnum atroligneum H. Crum, Contr. Univ. Michigan Herb. 21: 147. f. 2. 1997. [See Crum, H., 1997b.]
Type: Brazil. "Paraná: Bergland bei Lapa, 70 km SW von Curitiba, sickerfeuchte Sandsteinfelsen und Quellmulden bei der Gruta do Monge, ca. 25°47′S, 49°42′W, 590[sic, 950 is correct]–1000 mm [sic, m is correct] NN." *Schäfer-Verwimp & Verwimp 15214*. Dec 17–18, 1991. Holotype: MICH; isotype: herb. Schäfer-Verwimp.
Sphagnum billbuckii H. Crum, Contr. Univ. Michigan Herb. 21: 150. f. 3. 1997. [See Crum, H., 1997b.]

Type: Brazil. "Minas Gerais: Serra do Espinhaço, Mpio. Santa Bárbara, Parque Natural do Caraça, along trail from Santuário do Carapuça to Pico da 20°02′S, 43°30′W, alternately moist and dry sandstone, 1300–1460 m." *Wm. R. Buck 26642*. Oct 22, 1994. Holotype: MICH; isotype: NY.

Sphagnum bocainense H. Crum, Contr. Univ. Michigan Herb. 21: 153. f. 5. 1997. [See Crum, H., 1997b.]

Type: Brazil. "São Paulo: Serra da Bocaina bei São José do Barreiro, an quelligem Hang an der Strasse bei 'Shangra-lá,' ca. 22°47′S, 44°38′W, 1500 m." *Schäfer-Verwimp & Verwimp 9588*. Apr 16, 1988. Holotype: MICH.

Sphagnum capillifolium subsp. ***rubellum*** (Wilson) M. O. Hill in Blockeel & D. G. Long, Check-list Cens. Cat. Brit. Irish Bryoph. 26. 1998. [See Blockeel, T. L. & D. G. Long, 1998.]

Basionym: *Sphagnum rubellum* Wilson, 1855.

Sphagnum capillifolium var. ***schimperi*** (Röll) Düll, Bryol. Beitr. 4: 9. 1984. [See Düll, 1984.]

Basionym: *Sphagnum schimperi* Röll, 1886.

Note: not in *Index of Mosses, 1963–1989*.

Sphagnum capillifolium var. ***virginicum*** (H. Crum & L. E. Anderson) H. Crum, J. Hattori Bot. Lab. 82: 95. 1997. [See Crum, H., 1997a.]

Basionym: *Sphagnum tenerum* var. *virginicum* H. Crum & L. E. Anderson, 1994.

Sphagnum contortum var. ***rufescens*** Nees & Hornschuch, Bryol. Germ. 1: 15. 2: f. 6. 1823.

Other use: *Sphagnum lescurii* var. *rufescens* (Nees & Hornschuch) Düll, 1984.

Sphagnum crumii Schäfer-Verwimp, Nova Hedwigia 67: 410. f. 1. 1998. [See Schäfer-Verwimp, A., 1998.]

Type: Brazil. "Paraná: Hochland von Paraná nördlich Ponta Grossa, an sickerfeuchtem Felshang an der PR 151 zwischen Jaguariaíva und Piraí do Sul; ca. 1140 m alt., ca. 24°25′S, 49°50′W." *Schäfer-Verwimp & Verwimp 15129*. Dec 15, 1991. Holotype: MICH; isotypes: SP, herb. Schäfer-Verwimp.

Sphagnum delamboyense Schäfer-Verwimp, Nova Hedwigia 67: 412. f. 2. 1998. [See Schäfer-Verwimp, A., 1998.]

Type: Brazil. "Mato Grosso: Chapada dos Guimarães NE Cuiba, Schluchtwald bei Der 'Cachoeirinha,' an sickerfeuchter Felswand; 600 m NN; ca. 15°28′S, 55°49′W." *Schäfer-Verwimp & Verwimp 11319*. Jul 4, 1989. Holotype: MICH; isotypes: G, SP, herb. Schäfer-Verwimp.

Sphagnum fallax subsp. ***isoviitae*** (Flatberg) M. O. Hill in Blockeel & D. G. Long, Check-list Cens. Cat. Brit. Irish Bryoph. 27. 1998. [See Blockeel, T. L. & D. G. Long, 1998.]

Basionym: *Sphagnum isoviitae* Flatberg, 1992.

Sphagnum frahmii H. Crum, Contr. Univ. Michigan Herb. 21: 159. 1997. [See Crum, H., 1997b.]

Type: Brazil. "São Paul: an der Küstenstrasse SP55 zwischen Peruibe und Itahaem, feuchter Restingawald und anschliessende offene Sandflächen, ca. 5 m.s.m." *J.-P. Frahm 1874*. Jul 17, 1977. Holotype: MICH; isotype: ALTA. Paratypes cited.

Sphagnum inundatum Russow, Arch. Naturk. Liv- Ehst- Kurlands, Ser. 2, Biol. Naturk. 10: 390. 1894.

Other use: *Sphagnum lescurii* var. *inundatum* (Russow) Düll, 1984.

Sphagnum isoviitae Flatberg, J. Bryol. 17: 2. f. 1–2. 1992.

Other use: *Sphagnum fallax* subsp. *isoviitae* (Flatberg) M. O. Hill in Blockeel & D. G. Long, 1998.

Sphagnum laxiramosum H. Crum, Contr. Univ. Michigan Herb. 21: 153. f. 6. 1997. [See Crum, H., 1997b.]

Type: Brazil. "Mato Grosso: Chapada dos Guimarães NE Cuiabá, Schulchtwald beim Cachoerinha, an sickerfeuchter Felswand, 600 m NN, 15°28′S, 55°49′W." *Schäfer-Verwimp & Verwimp 8591*. Jul 4, 1987. Holotype: MICH.

Sphagnum lescurii var. ***inundatum*** (Russow) Düll, Bryol. Beitr. 4: 11. 1984. [See Düll, R., 1984.]

Basionym: *Sphagnum inundatum* Russow, 1894.

Note: not in *Index of Mosses, 1963–1989*.

Sphagnum lescurii var. ***rufescens*** (Nees & Hornschuch) Düll, Bryol. Beitr. 4: 11. 1984. [See Düll, 1984.]

Basionym: *Sphagnum contortum* var. *rufescens* Nees & Hornschuch, 1823.
Note: not in *Index of Mosses, 1963–1989*.

Sphagnum rio-negrense H. Crum, Contr. Univ. Michigan Herb. 21: 155. f. 7. 1997. [See Crum, H., 1997b.]
Type: Colombia. "Cundinamarca: Páramo de Palacio, caveceras Río Negro, 3375 m." *A. M. Cleef 4001*. May 22, 1972. Holotype: NY.

Sphagnum rubellum Wilson, Bryol. Brit. 19. pl. 60. 1855.
Other use: *Sphagnum capillifolium* subsp. *rubellum* (Wilson) M. O. Hill in Blockeel & D. G. Long, 1998.

Sphagnum schimperi Röll, Flora 69: 39. 1886.
Other use: *Sphagnum capillifolium* var. *schimperi* (Röll) Düll, 1984.

Sphagnum simplex Fife, New Zealand J. Bot. 34: 322. f. 3. 1996. [See Fife, A. J., 1996.]
Type: New Zealand. "South Island. Nelson Land District: St. Arnaud Ra., NE flank of Mt. McRae, . . . 1600 m a.s.l., 41°52.7′S, 172°51.5′E, NZMS 260 N29/982255." *A. J. Fife 8357*. Nov 15, 1987. Holotype: CHR 460018; isotypes: BA, BM, HO, MICH, WELT. Paratypes cited.

Sphagnum subditivum H. Crum, Contr. Univ. Michigan Herb. 21: 150. f. 4. 1997. [See Crum, H., 1997b.]
Type: New Zealand. "Canterbury: emergent at edge of tarn in hollow among *Sphagnum australe*, moist, subalpine *Nothofagus solandri* forest, 900 m, S bank of upper reaches of Bealey River near Margaret's Tarn (Bealey Glacier Track), Authur's Pass National Park." *A. Fife (with C. D. Meurk) 8011*. Dec 2, 1986. Holotype: MICH; isotype: CHR.

Sphagnum subhomophyllum H. Crum, Contr. Univ. Michigan Herb. 21: 156. f. 8. 1997. [See Crum, H., 1997b.]
Type: Brazil. "Rio de Janeiro: Serra de Itatiaia bei Visconde de Mauá, Triefstelle an der Strasse nach Marombá, 1400 m." *Schäfer-Verwimp & Verwimp 8323*. Apr 17, 1987. Holotype: MICH; isotype: herb. Schäfer-Verwimp.

Sphagnum subnitens subsp. ***ferrugineum*** Flatberg, Lindbergia 11: 50. f. 35–38. 1985.
Other use: *Sphagnum subnitens* var. *ferrugineum* (Flatberg) M. O. Hill in Blockeel & D. G. Long, 1998.

Sphagnum subnitens var. ***ferrugineum*** (Flatberg) M. O. Hill in Blockeel & D. G. Long, Check-list Cens. Cat. Brit. Irish Bryoph. 26. 1998. [See Blockeel, T. L. & D. G. Long, 1998.]
Basionym: *Sphagnum subnitens* subsp. *ferrugineum* Flatberg, 1985.

Sphagnum subnitens var. ***nitidum*** (Warnstorf) H. Crum, J. Hattori Bot. Lab. 82: 94. 1997. [See Crum, H., 1997a.]
Basionym: *Sphagnum nitidum* Warnstorf, 1895.

Sphagnum sumapazense H. Crum, Contr. Univ. Michigan Herb. 21: 158. f. 9. 1997. [See Crum, H., 1997b.]
Type: Colombia. "Meta: Páramo de Sumapaz, Hoya de la Quebrada Sitiales, 2.5 km SW Laguna La Primavera, 3500 m." *A. M. Cleef 1052*. Jan 26, 1972. Holotype: MICH; isotype: NY.

SPLACHNOBRYUM C. Müller, 1869.

Splachnobryum erosulum C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(3): 39. text f. a–c, pl. f. 49. 1896.
Other use: *Gymnostomiella erosulum* (C. Müller ex Dusén) Arts, 1996.

Splachnobryum schofieldii Banu-Fattah & Hadiuzzaman, Bangladesh J. Bot. 26: 61. f. 1. 1997. [See Banu-Fattah, K. & S. Hadiuzzaman, 1997.]
Type: Bangladesh. "Fuller road, University Staff Quarters, Dhaka in soli." *Khurshida Banu s.n.* Mar 13, 1987. Holotype: DUBH.

Splachnobryum tenerum C. Müller ex Dusén, Kongl. Svenska Vetensk. Acad. Handl. 28(3): 39. text f. a–c, pl. f. 50. 1896.
Other use: *Gymnostomiella tenerum* (C. Müller ex Dusén) Arts, 1996, *Gymnostomiella vernicosa* var. *tenerum* (C. Müller ex Dusén) Arts, 1998.

***STEREODON** Mitten, 1859.
*illegitimate, type of earlier name included (Article 52.1, St. Louis Code).

Stereodon contiguus Mitten, J. Proc. Linn. Soc., Bot. 4: 87. 1859.
Other use: *Sematophyllum subhumile* var. *contiguum* (Mitten) B. C. Tan, W. B. Schofield & H. P. Ramsay, 1998.

Stereodon creperus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 98. 1859.
Other use: *Campylophyllum creperum* (Mitten) Hedenäs, 1997.

Stereodon lacerulus Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 115. 1859.
Other use: *Campylophyllum lacerulum* (Mitten) Hedenäs, 1997.
Stereodon micans Mitten, J. Proc. Linn. Soc., Bot., Suppl. 1: 114. 1859.
Other use: *Schofieldiella micans* (Mitten) W. R. Buck, 1997.
STRUCKIA C. Müller, 1893.
Struckia zerovii (Lazarenko) Hedenäs, J. Hattori Bot. Lab. 80: 245. 1996. [See Hedenäs, L., 1996b.]
Basionym: *Cephalocladium zerovii* Lazarenko, 1946.
SYMBLEPHARIS Montagne, 1837.
Symblepharis fuegiana (Cardot) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1006. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Oncophorus fuegianus* Cardot, 1900.
Symblepharis krausei (Lorentz) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1006. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Dicranella krausei* Lorentz, 1866.
Symblepharis luteovirens (E. B. Bartram in Roivainen) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1006. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Oncophorus luteovirens* E. B. Bartram in Roivainen, 1937.
SYMPHYSODON Dozy & Molkenboer, 1844.
Symphysodon neckeroides var. ***subneckeroides*** (Brotherus) B. C. Tan in B. C. Tan, A. C. Church & Windadri, Trop. Biodiv. 4: 239. 1997. [See Tan, B. C., A. C. Church & F. I. Windadri, 1997.]
Basionym: *Symphysodon subneckeroides* Brotherus, 1909.
Symphysodon subneckeroides Brotherus, Leafl. Philipp. Bot. 2: 655. 1909.
Other use: *Symphysodon neckeroides* var. *subneckeroides* (Brotherus) B. C. Tan in B. C. Tan, A. C. Church & Windadri, 1997.
SYNTRICHIA Bridel, 1801.
Syntrichia magilliana L. E. Anderson, J. Hattori Bot. Lab. 82: 15. f. 1–8. 1997. [See Anderson, L. E., 1997.]
Type: South Africa. "Cape: Richtersveld, Plogberg south of Khubus, Karagabkloof at Olienhoutplaas, granite slopes, 600 m." *Oliver, Tolken & Venter 548*. Sep 3, 1977. Holotype: MO.
SYRRHOPODON Schwägrichen, 1824.
Syrrhopodon incompletus var. ***perangustifolius*** W. D. Reese, Bryologist 80: 13. f. 17–20. 1977.
Other use: *Syrrhopodon perangustifolius* (W. D. Reese) W. D. Reese in W. D. Reese & Churchill, 1998.
Syrrhopodon peguensis (Bescherelle) W. D. Reese, J. Hattori Bot. Lab. 82: 243. 1997. [See Reese, W. D., 1997.]
Basionym: *Calymperes peguense* Bescherelle, 1896.
Syrrhopodon perangustifolius (W. D. Reese) W. D. Reese in W. D. Reese & Churchill, Bryologist 101: 153. 1998. [See Reese, W. D. & S. P. Churchill, 1998.]
Basionym: *Syrrhopodon incompletus* var. *perangustifolius* W. D. Reese, 1977.
TAXIPHYLLUM Fleischer, 1923.
Taxiphyllum arcuatum (Bosch & Sande Lacoste) He Si, J. Hattori Bot. Lab. 81: 37. 1997. [See He, Si, 1997.]
Basionym: *Homalia arcuata* Bosch & Sande Lacoste, 1862.
TAXITHELIUM Spruce ex Mitten, 1869.
Taxithelium concavum (W. J. Hooker in Kunth) Spruce ex Florschütz-de Waard, Fl. Guianas, Ser. C, Bryoph. 1: 418. 1996. [See Florschütz-de Waard, J., 1996.]
Basionym: *Hypnum concavum* W. J. Hooker in Kunth, 1822.
Taxithelium muscicola (Brotherus) B. C. Tan, H. P. Ramsay & W. B. Schofield, Austral. Syst. Bot. 9: 324. 1996. [See Tan, B. C., H. P. Ramsay & W. B. Schofield, 1996.]
Basionym: *Trichosteleum muscicola* Brotherus, 1900.
TETRAPLODON Bruch & W. P. Schimper in B.S.G., 1844.
Tetraplodon mnioides var. ***longisetus*** (Gao Chien) Bai Xue-liang, Fl. Bryophyt. Intramongol. 259. 1997.
Basionym: *Tetraplodon urceolatus* var. *longisetus* Gao Chien, 1977.
THAMNIOPSIS (Mitten) Fleischer, 1908.
Thamniopsis stenodictyon (Sehnem) Oliveira-e-Silva & Yano, Bradea 8: 82. 1998. [See Oliveira-e-Silva, M. I. M. N. & O. Yano, 1998.]
Basionym: *Hookeriopsis stenodictyon* Sehnem, 1979.
***THAMNIUM** W. P. Schimper in B.S.G., 1852.
*illegitimate, later homonym (Article 53.1, St. Louis Code).

Thamnium crassinervium Brotherus, Nat. Pflanzenfam. I(3): 862. 1906.
Other use: *Thamnobryum crassinervium* (Brotherus) He Si, 1998.

THAMNOBRYUM Nieuwland, 1917.
Thamnobryum crassinervium (Brotherus) He Si, J. Hattori Bot. Lab. 85: 166. 1998. [See He, Si, 1998.]
Basionym: *Thamnium crassinervium* Brotherus, 1906.
Thamnobryum pendulirameum (C. Müller) He Si, J. Hattori Bot. Lab. 81: 42. 1997. [See He, Si, 1997.]
Basionym: *Neckera penduliramea* C. Müller, 1876.

TORTELLA (Lindberg) Limpricht in Rabenhorst, 1888, conserved name.
Tortella tortuosa var. ***bambergeri*** (W. P. Schimper) Düll, Bryol. Beitr. 4: 89. 1984. [See Düll, 1984.]
Basionym: *Trichostomum bambergeri* W. P. Schimper, 1876.
Note: not in *Index of Mosses, 1963–1989*.

TORTULA Hedwig, 1801, conserved name.
Tortula bidentata Bai Xue-liang, Fl. Bryophyt. Intramongol. 227. f. 68: 1–7. 1997. [See Bai Xue-liang, 1997.]
Type: China. "Nei Mongol: Helanshan, Halawugou, alt. 2000 m, in saxis." *Tun Chi-kuo 1858*. Jul 23, 1963. Holotype: HIMC. Paratype cited.
Tortula calcicolens W. Kramer, Bryophyt. Biblioth. 21: 90. 1980.
Replaced name: *Tortula calcicola* Grebe, 1910 [1909].
Blocking name: *Tortula calcicola* (Hampe) Mitten, 1882.
Other use: *Tortula ruralis* var. *calcicolens* (W. Kramer) Düll, 1984.
Tortula ruralis var. ***calcicolens*** (W. Kramer) Düll, Bryol. Beitr. 4: 83. 1984. [See Düll, 1984.]
Basionym: *Tortula calcicolens* W. Kramer, 1980.
Note: not in *Index of Mosses, 1963–1989*.
Tortula viridifolia (Mitten) Blockeel & A. J. E. Smith, J. Bryol. 20: 66. 1998. [See Blockeel, T. L. & A. J. E. Smith, 1998.]
Basionym: *Pottia viridifolia* Mitten, 1871.

TREMATODON Michaux, 1803.
Trematodon longirostris Schwägrichen, Sp. Musc. Frond., Suppl. 1(2): 343. 1816.
Other use: *Leptotrichella longirostris* (Schwägrichen) Ochyra, 1997.

TRICHOSTELEUM Mitten, 1868.
Trichosteleum glaziovii (Hampe) W. R. Buck, Nova Hedwigia 66: 243. 1998. [See Buck, W. R., 1998b.]
Basionym: *Hypnum glaziovii* Hampe, 1875.
Trichosteleum hornschuchii var. ***subglabrum*** Florschütz-de Waard, Fl. Guianas, Ser. C, Bryoph. 1: 430. f. 165: f–g. 1996. [See Florschütz-de Waard, J., 1996.]
Type: Guyana. "Mabura Hill, dry evergreen forest on white sand, on clay and wood near creek." *Cornelissen & ter Steege C208*. Holotype: U. Other indicated distribution: French Guiana, Suriname.
Trichosteleum muscicola Brotherus, Oefvers. Förh. Finska Vetensk.-Soc. 42: 117. 1900.
Other use: *Taxithelium muscicola* (Brotherus) B. C. Tan, H. P. Ramsay & W. B. Schofield, 1996.
Trichosteleum saproxylophilum (C. Müller) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 220. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Hypnum saproxylophilum* C. Müller, 1851.
Trichosteleum subfalcatulum (Brotherus & Watts) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 220. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Rhaphidostegium subfalcatulum* Brotherus & Watts, 1915.
Trichosteleum wattsii (Paris) B. C. Tan, W. B. Schofield & H. P. Ramsay, Nova Hedwigia 67: 221. 1998. [See Tan, B. C., W. B. Schofield & H. Ramsay, 1998.]
Basionym: *Rhaphidostegium wattsii* Paris, 1900.

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Trichostomum anoectangioides C. Müller, Nuovo Giorn. Bot. Ital., n. s., 4: 252. 1897.
Other use: *Gymnostomum anoectangioides* (C. Müller) Li Xing-jiang, 1996.
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Other use: *Tortella tortuosa* var. *bambergeri* (W. P. Schimper) Düll, 1984.
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Other use: *Pseudosymblepharis bombayensis* (C. Müller) P. Sollman in P. Sollman & Een, 1996.

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Basionym: *Trichostomum mutabile* var. *densum* Bruch & W. P. Schimper, 1843.
Note: not in *Index of Mosses, 1963–1989.*

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Other use: *Trichostomum brachydontium* var. *densum* (Bruch & W. P. Schimper) Düll, 1984.

†***Trichostomum nordenskioeldii*** W. P. Schimper in Heer, Kongl. Svenska Vetenskapsakad. Handl. 8(7): 88. pl. 16: f. 76–79. 1870. [See Heer, O., 1870.]
Note: not in *Index Muscorum.*

Trichostomum pallidisetum H. L. H. Müller, Verh. Naturhist. Vereines Preuss. Rheinl. Westphalens 22: 292. pl. 5, 6 f. 1–13. 1865.
Other use: *Weissia triumphans* var. *pallidisetum* (H. L. H. Müller) Düll, 1984.

****Trichostomum stenophyllum*** (Cardot) Li Xing-jiang & Iwatsuki, Hikobia 12: 35. 1996. [See Li Xing-jiang & Z. Iwatsuki, 1996.]
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Basionym: *Hyophila stenophylla* Cardot, 1908.
Earlier name: *Trichostomum stenophyllum* (Mitten) Brotherus, 1902.

Trichostomum sweetii (E. B. Bartram) Stark, Bryologist 99: 345. 1996. [See Stark, L. R., 1996.]
Basionym: *Weissia sweetii* E. B. Bartram, 1945.

TRISMEGISTIA (C. Müller) C. Müller, 1908.

Trismegistia fluminicola C. Müller, Hedwigia 40: 74. 1901.
Other use: *Sematophyllum fluminicola* (C. Müller) W. R. Buck, 1998.

ULEOBRYUM Brotherus, 1906.

Uleobryum naganoi Kiguchi in Kiguchi, Stone & Iwatsuki, Hikobia 12: 157. f. 1–2. 1996. [See Kiguchi, H., I. G. Stone & Z. Iwatsuki, 1996.]
Type: Japan. "Kanagawa-ken, Hane, 190 m alt." *H. Kiguchi 11552.* Nov 3, 1989. Holotype: NICH; isotypes: HIRO, MEL, herb. Kiguchi.

ULOTA D. Mohr, 1806.

Ulota perichaetialis (Sainsbury) Goffinet in Goffinet & Vitt, Bryol. Twenty-first Cent. 153. 1998. [See Goffinet, B. & D. H. Vitt, 1998.]
Basionym: *Bryodixonia perichaetialis* Sainsbury, 1945.

Ulota rufula var. ***fagicola*** Dusén ex Malta, Acta Horti Bot. Univ. Latv. 2: 200. f. 19: a–c. 1927. [See Malta, N., 1927.]
Type: Chile. "Cordillera de la Costa supra Angol." *Dusén 346.* Nov 1896.
Note: not in *Index Muscorum.*

Ulota rufula var. ***patagonica*** Malta, Acta Horti Bot. Univ. Latv. 2: 200. f. 19: d–g. 1927. [See Malta, N., 1927.]
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Note: not in *Index Muscorum.*

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Verrucidens insularis (Mitten) Ochyra & Matteri, Fragm. Florist. Geobot. 41: 1007. 1996. [See Ochyra, R. & C. M. Matteri, 1996.]
Basionym: *Grimmia insularis* Mitten, 1876.

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****Vesicularia lignicola*** Yano, Bol. Inst. Bot. (São Paulo) 10: 135. 1996. [See Yano, O., 1996.]
*invalid, basionym not cited (Article 33.3, St. Louis Code).

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Basionym: *Sematophyllum macrosporum* Dixon & Sainsbury, 1945.

WARNSTORFIA Loeske, 1907.

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Basionym: *Hypnum austrostramineum* C. Müller in Neumayer, 1890.

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Basionym: *Hypnum austrostramineum* var. *gracillimum* C. Müller in Neumayer, 1890.
Warnstorfia austrostraminea var. ***minor*** (Cardot) Ochyra, Fragm. Florist. Geobot. 41: 481. 1996. [See Ochyra, R., 1996b.]
Basionym: *Hypnum austrostramineum* var. *minus* Cardot, 1906.
Warnstorfia austrostraminea var. ***subfluitans*** (C. Müller in Neumayer) Ochyra, Fragm. Florist. Geobot. 41: 481. 1996. [See Ochyra, R., 1996b.]
Basionym: *Hypnum austrostramineum* var. *subfluitans* C. Müller in Neumayer, 1890.
Warnstorfia austrostraminea var. ***tenuissima*** (Cardot & Brotherus) Ochyra, Fragm. Florist. Geobot. 41: 481. 1996. [See Ochyra, R., 1996b.]
Basionym: *Drepanocladus austrostramineus* var. *tenuissimus* Cardot & Brotherus, 1923.
Warnstorfia laculosa (C. Müller) Ochyra & Matteri, Fragm. Florist. Geobot. 42: 181. 1997. [See Ochyra, R. & C. M. Matteri, 1997.]
Basionym: *Hypnum laculosum* C. Müller, 1885.
*WEBERA Hedwig, 1801.
*illegitimate, later homonym (Article 53.1, St. Louis Code).
Webera looseri Thériot, Rev. Bryol. Lichénol. 7: 174. 5. 1935.
Other use: *Pohlia looseri* (Thériot) He Si, 1998.
WEISSIA Hedwig, 1801.
Weissia brasiliensis Duby, Mém. Soc. Phys. Genève 7: 412. pl. 4. 1836.
Other use: *Leptotrichella brasiliensis* (Duby) Ochyra, 1997.
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Other use: *Pottiopsis caespitosa* (Bruch in Bridel) Blockeel & A. J. E. Smith, 1998.
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Basionym: *Gymnostomum wimmerianum* Sendtner, 1840.
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Other use: *Leptotrichella exigua* (Schwägrichen) Ochyra, 1997.
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Other use: *Leptotrichella pallidiseta* (Bridel) Ochyra, 1997.
Weissia sweetii E. B. Bartram, Bryologist 48: 90. f. A–G. 1945.
Other use: *Trichostomum sweetii* (E. B. Bartram) Stark, 1996.
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Basionym: *Trichostomum pallidisetum* H. L. H. Müller, 1865.
Note: basionym cited as "*Trichotomum triumphans*" but with correct bibliographic citation for *T. pallidisetum*; not in *Index of Mosses, 1963–1989*.
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Type: Holotype: *Hypnum cochlearifolia* Schwaegrichen, *W. cochlearifolia* (Scwhaegrichen) Dixon.
Weymouthia subgen. ***Looseria*** Thériot, Rev. Bryol. Lichénol. 7: 181. 1935.
Other use: *Lembophyllum* sect. *Looseria* (Thériot) Tangney, 1997.
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Wildia solmsiellacea C. Müller & Brotherus, Oefvers. Förh. Finska Vetensk.-Soc. 33: 103. 1891.
Other use: *Erpodium solmsiellaceum* (C. Müller & Brotherus) Stone, 1997.
ZANDERIA Goffinet, Bryologist 100: 434. 1997 [1998]. [See Goffinet, B., 1997 [1998].]
Type: Holotype: *Pottia octoblepharis* Jaeger, *Z. octoblepharis* (Jaeger) Goffinet.
Original placement: Rhachitheciaceae.
Zanderia octoblepharis (Jaeger) Goffinet, Bryologist 100: 434. 1997 [1998]. [See Goffinet, B., 1997 [1998].]
Basionym: *Pottia octoblepharis* Jaeger, 1873.
ZYGODON W. J. Hooker & Taylor, 1818.
Zygodon lukasii Herzog, Repert. Spec. Nov. Regni Veg. 45: 47. pl. 260: f. h–k. 1938. [See Herzog, 1938.]
Type: Peru. "Cordillera Blanca, in Felsritzen (Schiefer) des Pico Cajon Rury, ca. 4600 m." *B. Lukas s.n.* May 27, 1932.
Note: not in *Index Muscorum*.

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Other use: *Bryomaltaea obtusifolia* (W. J. Hooker) Goffinet in Goffinet & Vitt, 1998.

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Acta Horti Bot. Univ. Latv. — Acta Horti Botanici Universitatis Latviensis. BPH: 44.01.

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Arch. Esc. Fárm. Fac. Ci. Méd. Córdoba — Archivos de la Escuela de Fármacia de la Facultad de Ciencias Médicas de Córdoba. BPH/S: 100.R. **

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Austral. Syst. Bot. — Australian Systematic Botany. BPH/S: 112.L.

Bangladesh J. Bot. — Bangladesh Journal of Botany. BPH/S: 115.R.

Bol. Inst. Bot. (São Paulo) — Boletim do Instituto de Botânica (São Paulo). BPH: 206.16.

Bot. Faeröes — Botany of the Faeröes. Warming, E. TL2: 16736.

Bradea — Bradea, Bolitim do Herbarium Bradeanum. BPH/S: 168.R.

Bryol. Beitr. — Bryologische Beitraege. BPH/S: 171.R. **

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Bull. Nat. Hist. Mus. Lond. (Bot.) — Bulletin of the Natural History Museum, London (Botany). BPH: NEW.

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Check-list Cens. Cat. Brit. Irish Bryoph. — A Check-list and Census Catalogue of British and Irish Bryophytes. Blockeel, T. L. & D. G. Long TL2: NEW. 1998.

Cryptog. Bot. — Cryptogamic Botany. BPH/S: 293.L.

Cryptog. Bryol. Lichénol. — Cryptogamie: Bryologie, Lichénologie. BPH/S: 293.L. **

Fl. Bryophyt. Intramongol. — Flora Bryophytarum Intramongolicarum. Bai Xue-liang (ed.). TL2: NEW. 1997.

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Fl. Gén. Belgique, Bryoph. — Flore Générale de Belgique, Bryophytes. Robyns, W. (ed.) TL2: 9313*. **

Fl. Guianas, Ser. C, Bryoph. — Flora of the Guianas, Series C, Bryophytes. BPH: NEW. 1996.

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Index Bryol. Suppl. — Index Bryologicus Supplementum Primum. Paris, E. G. TL2: 7328*. **

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J. Adelaide Bot. Gard. — Journal of the Adelaide Botanic Gardens. BPH/S: 435.L.

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J. Bryol. — Journal of Bryology. BPH/S: 441.L. **

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